CINT2000 Result

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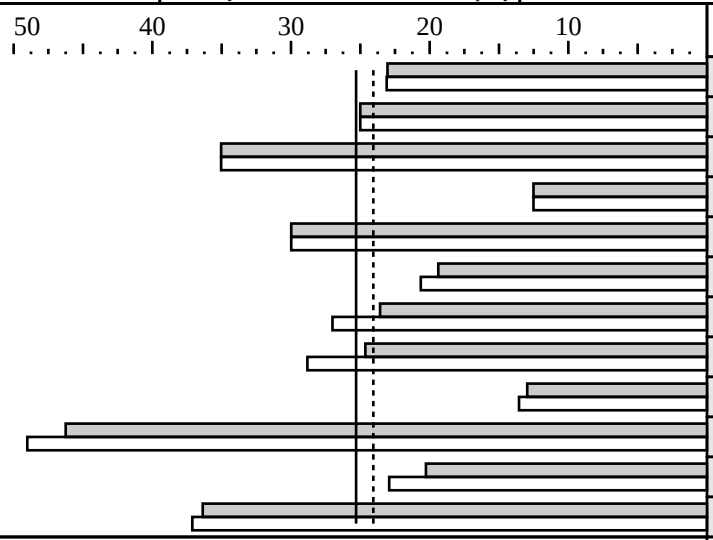
Hewlett-Packard Company
hp server rp7410

SPECint_rate2000 = 25.3

SPECint_rate_base2000 = 24.1

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2002 | Hardware Avail: Mar-2002 | Software Avail: Mar-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	282	23.0	4	281	23.1
175.vpr	4	260	25.0	4	260	25.0
176.gcc	4	146	35.0	4	146	35.0
181.mcf	4	668	12.5	4	668	12.5
186.crafty	4	155	30.0	4	155	30.0
197.parser	4	431	19.4	4	405	20.6
252.eon	4	256	23.6	4	223	27.0
253.perlbmk	4	339	24.6	4	290	28.8
254.gap	4	394	13.0	4	377	13.6
255.vortex	4	191	46.2	4	180	49.0
256.bzip2	4	343	20.3	4	304	22.9
300.twolf	4	383	36.4	4	375	37.1

Hardware

CPU:	PA-8700
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 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:	8GB (16x512MB DIMMs)
Disk Subsystem:	2x18 GB SCSI
Other Hardware:	--

Software

Operating System:	HP-UX 11i TCOE B.11.11.0203
Compiler:	HP ANSI C 11.11.04 aC++ C.03.33.01 PHSS_24207 libm patch
File System:	VxFS
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
```

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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 1 cell
  firmware tunable DataPrefetch enabled (default)

Operating system configuration notes:

  vps_pagesize 4096, vps_ceiling 16384
  maxdsiz 0x80000000, maxssiz 0x10000000
  maxdsiz_64bit 0x400000000, maxssiz_64bit 0x40000000
```