CINT2000 Result

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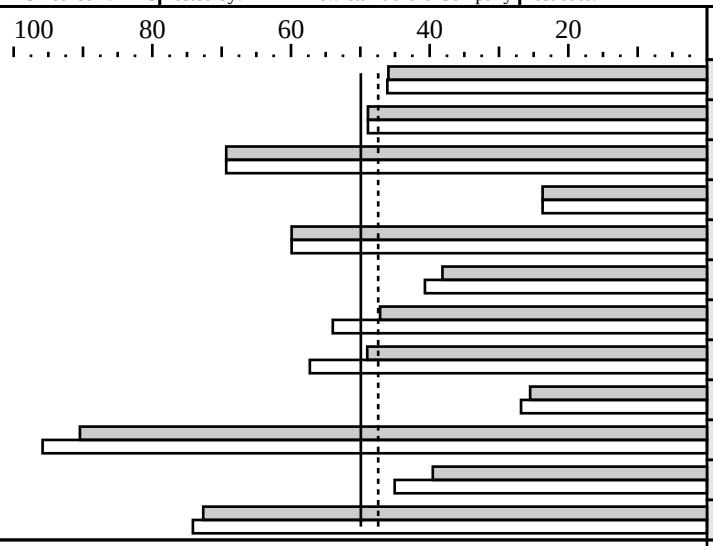
Hewlett-Packard Company
hp server rp7410

SPECint_rate2000 = 49.9

SPECint_rate_base2000 = 47.4

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	8	283	46.0	8	282	46.1
175.vpr	8	266	48.9	8	266	48.9
176.gcc	8	147	69.3	8	147	69.3
181.mcf	8	704	23.7	8	704	23.7
186.crafty	8	155	59.9	8	155	59.9
197.parser	8	438	38.2	8	411	40.7
252.eon	8	256	47.2	8	224	54.0
253.perlbmk	8	341	49.0	8	292	57.3
254.gap	8	400	25.5	8	381	26.8
255.vortex	8	195	90.4	8	184	95.8
256.bzip2	8	352	39.5	8	309	45.0
300.twolf	8	383	72.7	8	375	74.2

Hardware

CPU:	PA-8700
CPU MHz:	750
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)
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 2 cells
  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
```