



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.zip	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.perlbnk	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.perlbnk: -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.zip: +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.perlbnk: +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
```