



# CINT2000 Result

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Hewlett-Packard Company  
hp server rp2470

SPECint\_rate2000 = 12.9  
SPECint\_rate\_base2000 = 12.2

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jan-2002 Hardware Avail: Mar-2002 Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	283	11.5	2	279	11.6
175.vpr	2	242	13.4	2	242	13.4
176.gcc	2	149	17.2	2	149	17.2
181.mcf	2	478	8.74	2	478	8.74
186.crafty	2	156	14.9	2	156	14.9
197.parser	2	446	9.36	2	418	10.00
252.eon	2	266	11.3	2	229	13.2
253.perlbnk	2	349	12.0	2	300	13.9
254.gap	2	420	6.07	2	399	6.39
255.vortex	2	193	22.8	2	181	24.3
256.bzip2	2	345	10.1	2	298	11.7
300.twolf	2	383	18.2	2	377	18.5

### Hardware

CPU: PA-8700  
CPU MHz: 750  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 1-2  
Parallel: No  
Primary Cache: 0.75MB(I) + 1.5MB(D) on chip  
Secondary Cache: None  
L3 Cache: None  
Other Cache: None  
Memory: 8GB (8x1GB DIMMs)  
Disk Subsystem: 1x36 GB SCSI  
Other Hardware:

### Software

Operating System: HP-UX 11i B.11.11.0112  
Compiler: HP ANSI C B11.11.04  
HP aC++ Compiler C.03.33.01  
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
```

### Operating system configuration notes:

```
vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 15, dbc_max_pct 15
maxdsiz_64bit 0x4000000000, maxssiz_64bit 0x400000000
nfile 8192
```