



# CINT2000 Result

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Hewlett-Packard Company  
hp server rp7400

SPECint\_rate2000 = 42.6  
SPECint\_rate\_base2000 = 40.2

SPEC license #: 3 Tested by: HP Richardson Test date: Oct-2001 Hardware Avail: Sep-2001 Software Avail: Sep-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	332	39.1	8	329	39.5
175.vpr	8	312	41.6	8	312	41.6
176.gcc	8	187	54.5	8	180	56.6
181.mcf	8	738	22.6	8	736	22.7
186.crafty	8	179	51.8	8	179	51.8
197.parser	8	483	34.6	8	449	37.2
252.eon	8	295	40.9	8	256	47.0
253.perlbnk	8	407	41.0	8	350	47.7
254.gap	8	527	19.4	8	502	20.3
255.vortex	8	235	74.9	8	224	78.7
256.bzip2	8	431	32.3	8	375	37.1
300.twolf	8	443	62.9	8	427	65.2

### Hardware

CPU: PA-8700  
CPU MHz: 650  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
CPU(s) orderable: 1 to 8  
Parallel: No  
Primary Cache: 0.75MBI + 1.5MBD on chip  
Secondary Cache: None  
L3 Cache: None  
Other Cache: None  
Memory: 16GB  
Disk Subsystem: 2x9GB SCSI disk  
Other Hardware: None

### Software

Operating System: B.11.11.0109.6 HP-UX 11i, September 2001 HWE patches  
Compiler: HP ANSI C 11.11.03  
aC++ C.03.30.02  
PHSS\_24207 libm patch  
File System: HFS  
System State: Multi-user

## Notes/Tuning Information

### Portability Flags:

```
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
```

### Base Flags:

```
C: +Oall +I/+P +Ostatic_prediction -Wl,-aarchive
C++: +O3 +I/+P +Ostatic_prediction -Wl,-aarchive
```

### Peak Flags:

```
164.gzip: +Oall +Optrs_strongly_typed +Oinline_budget=800
        +I/+P +Ostatic_prediction -Wl,-aarchive
175.vpr: basepeak=true
176.gcc: +Oall +ESlit +ESfic +Optrs_strongly_typed
        +I/+P +Ostatic_prediction -Wl,-aarchive
```



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## Notes/Tuning Information (Continued)

```

181.mcf: +Oall +Owhole_program_mode +Opromote_indirect_calls
        +I/+P +Ostatic_prediction -Wl,-aarchive
186.crafty: basepeak=true
197.parser: +Oall +Odataprefetch +ESfic +Oinline_budget=400
           +Owhole_program_mode
           +I/+P +Ostatic_prediction -Wl,-aarchive
252.eon: +noeh +O4 +Optrs_strongly_typed +Olibcalls +Oentrysched
        +A +ESfic
        +I/+P +Ostatic_prediction -Wl,-aarchive
253.perlbnk: +Oall +ESlit +ESfic +Optrs_strongly_typed
            +Opromote_indirect_calls -Wl,/opt/langtools/lib/fastmem.o
            +I/+P +Ostatic_prediction -Wl,-aarchive
254.gap: +Oall +ESlit +ESfic +Optrs_strongly_typed
        +Opromote_indirect_calls
        +I/+P +Ostatic_prediction -Wl,-aarchive
255.vortex: +Oall +Oinline_budget=800 +Optrs_strongly_typed
           +I/+P +Ostatic_prediction -Wl,-aarchive
256.bzip2: +Oall +Odataprefetch +Optrs_strongly_typed
           +Owhole_program_mode +Onoptrs_to_globals
           +Oinline_budget=80 +OESlit +OESfic
           +I/+P +Ostatic_prediction -Wl,-aarchive
300.twolf: +Oall +Optrs_strongly_typed
           +I/+P +Ostatic_prediction -Wl,-aarchive

```

### System tunables:

```

vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 2063835136, maxssiz 401604608

```