



# CINT2000 Result

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Hewlett-Packard Company  
hp server rp8400

SPECint\_rate2000 = 25.7  
SPECint\_rate\_base2000 = 24.3

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	283	23.0	4	280	23.2
175.vpr	4	261	24.9	4	261	24.9
176.gcc	4	147	34.7	4	145	35.3
181.mcf	4	667	12.5	4	664	12.6
186.crafty	4	155	30.0	4	155	30.0
197.parser	4	376	22.2	4	352	23.7
252.eon	4	250	24.1	4	216	28.0
253.perlbnk	4	345	24.2	4	292	28.6
254.gap	4	395	12.9	4	376	13.6
255.vortex	4	190	46.4	4	180	49.0
256.bzip2	4	342	20.3	4	304	22.9
300.twolf	4	383	36.4	4	367	37.9

### Hardware

CPU: PA-8700  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
 CPU(s) orderable: 2 to 16 by 2  
 Parallel: No  
 Primary Cache: 0.75MBI + 1.5MBD on chip  
 Secondary Cache: None  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8GB  
 Disk Subsystem: 8x36GB SCSI  
 Other Hardware: 1 cell

### 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: Advanced JFS  
 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  
 181.mcf: +Oall +Owhole\_program\_mode +Opromote\_indirect\_calls



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## Notes/Tuning Information (Continued)

```

+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 0x7b03a000, maxssiz 256000000
boot time firmware tunable DataPrefetch enabled (default)

```