



# CINT2000 Result

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Hewlett-Packard Company  
hp server rp7400

SPECint2000 = 493  
SPECint\_base2000 = 466

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	323	433	321	436	
175.vpr	1400	281	498	281	498	
176.gcc	1100	174	631	172	639	
181.mcf	1800	459	392	460	391	
186.crafty	1000	180	557	180	557	
197.parser	1800	470	383	436	413	
252.eon	1300	295	441	256	507	
253.perlbnk	1800	404	446	346	521	
254.gap	1100	502	219	474	232	
255.vortex	1900	227	836	215	883	
256.bzip2	1500	401	374	345	435	
300.twolf	3000	444	676	426	704	

### Hardware

CPU: PA-8700  
CPU MHz: 650  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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
Unused processors disabled at boot

```