



# CINT2000 Result

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Hewlett-Packard Company  
hp workstation c3650

SPECint2000 = 508  
SPECint\_base2000 = 481

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	330	424	329	425	
175.vpr	1400	262	535	262	535	
176.gcc	1100	164	672	164	672	
181.mcf	1800	386	466	386	466	
186.crafty	1000	187	533	187	533	
197.parser	1800	494	364	464	388	
252.eon	1300	313	415	270	481	
253.perlbnk	1800	406	443	351	513	
254.gap	1100	432	255	407	270	
255.vortex	1900	212	897	198	959	
256.bzip2	1500	364	412	316	474	
300.twolf	3000	465	645	456	659	

### Hardware

CPU: PA-8700  
 CPU MHz: 625  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 0.75MB(I) + 1.5MB(D) on chip  
 Secondary Cache: None  
 L3 Cache: None  
 Other Cache: None  
 Memory: 2GB (4x512MB DIMMs)  
 Disk Subsystem: 1x18 GB SCSI  
 Other Hardware:

### Software

Operating System: HP-UX 11i TCOE B.11.11.0109  
 PHKL\_24779 LVM Cumulative Patch  
 Compiler: HP ANSI C B11.11.04  
 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.gzip: +I/+P +Oall +Optrs_strongly_typed +Oinline_budget=800
        -Wl,-a,archive +Ostatic_prediction
175.vpr: basepeak=true
176.gcc: basepeak=true
176.mcf: basepeak=true
186.crafty: basepeak=true
```



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## Notes/Tuning Information (Continued)

```

176.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 0x7b03a000, maxssiz 256000000
nfile 8192

```