



# CINT2000 Result

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**Hewlett-Packard Company**  
HP9000 Superdome 32-way (552MHz PA-8600)

SPECint\_rate2000 = 140  
SPECint\_rate\_base2000 = 132

SPEC license #: 3 Tested by: HP Richardson, TX Test date: Mar-2001 Hardware Avail: May-2001 Software Avail: Jul-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	32	382	136	32	381	136
175.vpr	32	430	121	32	430	121
176.gcc	32	209	195	32	207	198
181.mcf	32	936	71.4	32	931	71.8
186.crafty	32	216	172	32	216	172
197.parser	32	561	119	32	525	127
252.eon	32	343	141	32	294	164
253.perlbnk	32	482	138	32	411	163
254.gap	32	536	76.2	32	510	80.0
255.vortex	32	279	253	32	265	266
256.bzip2	32	517	108	32	459	121
300.twolf	32	738	151	32	714	156

### Hardware

CPU: PA-8600  
 CPU MHz: 552  
 FPU: Integrated  
 CPU(s) enabled: 32 cores, 32 chips, 1 core/chip  
 CPU(s) orderable: 4-32  
 Parallel: No  
 Primary Cache: 0.5MBI + 1.0MBD on chip  
 Secondary Cache: none  
 L3 Cache: N/A  
 Other Cache: N/A  
 Memory: 128GB  
 Disk Subsystem: 5x9GB Fiberchannel (striped)  
 1x9GB SCSI disk (root), 15x9GB FC disks (swap)  
 Other Hardware: 8 cells, 500MHz CEC

### Software

Operating System: HP-UX 11i Technical Computing OE  
 Compiler: HP ANSI C 11.11.02  
 aC++ C.03.30.1  
 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 +Ostaticprediction -Wl,-aarchive
C++: +O3 +I/+P +Ostaticprediction -Wl,-aarchive
```

### Peak Flags:

```
all: +I/+P +Ostaticprediction -Wl,-a,archive
164.gzip: +Oall +Optrs_strongly_typed +Oinline_budget=800
175.vpr: basepeak=true
176.gcc: +Oall +ESlit +ESflic +Optrs_strongly_typed
181.mcf: +Oall +Owhole_program_mode +Opromote_indirect_calls
```



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## Notes/Tuning Information (Continued)

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

### System tunables:

```
vps_pagesize 4096, vps_ceiling 16384
dbc_min_pct 20, dbc_max_pct 20
maxdsiz 0x7b03a000, maxssiz 256000000
DataPrefetch enabled (boot time firmware tunable)
```