



# CINT2000 Result

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Hewlett-Packard Company  
HP 9000 Model A500

SPECint2000 = 422  
SPECint\_base2000 = 406

SPEC license #: 3 Tested by: HP Richardson, TX Test date: Oct-2000 Hardware Avail: Nov-2001 Software Avail: Nov-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	373	375	370	379	
175.vpr	1400	350	400	325	430	
176.gcc	1100	193	570	193	569	
181.mcf	1800	520	346	524	343	
186.crafty	1000	213	469	213	469	
197.parser	1800	505	357	502	359	
252.eon	1300	344	378	311	418	
253.perlbnk	1800	456	395	419	429	
254.gap	1100	488	226	488	226	
255.vortex	1900	245	775	233	816	
256.bzip2	1500	447	336	400	375	
300.twolf	3000	657	457	631	475	

### Hardware

CPU: 550 MHz PA-8600  
 CPU MHz: 550  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1-2  
 Parallel: --  
 Primary Cache: 512KBI+1MBD (on chip)  
 Secondary Cache: none  
 L3 Cache: none  
 Other Cache: None  
 Memory: 8GB  
 Disk Subsystem: 2x18 GB 10000RPM  
 Other Hardware: --

### Software

Operating System: HP-UX B.11.0  
 Compiler: HP92453-01 A.11.01.20 HP C Compiler  
 B3913DB C.03.25 HP aC++ Compiler (S800)  
 File System: HP-UX VxFS  
 System State: Multi-user

## Notes/Tuning Information

### Portability flags:

175.vpr: -DSPEC\_CPU2000 ; 176.gcc: -DHOST\_WORDS\_BIG\_ENDIAN  
 181.mcf: -DWANT\_STDC\_PROTO ; 186.crafty: -DHP -DSPEC\_CPU2000  
 197.parser: -DSPEC\_CPU2000 ; 252.eon: -DFMAX\_IS\_DOUBLE -DNDEBUG  
 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  
 300.twolf: -DSPEC\_CPU2000

### Base flags:

cc: +Oall +Ostatic\_prediction -Wl,-aarchive +I/+P  
 c++: +O3 +Ostatic\_prediction -Wl,-aarchive +I/+P

### Peak flags:

Peak flags = base flags for 186.crafty and 254.gap  
 all: +Ostaticprediction -Wl,-aarchive +I/+P  
 164.gzip: +Oall +Optrs\_strongly\_typed +Oinline\_budget=800  
 -Wl,/opt/langtools/lib/fastmem.o  
 175.vpr: +Oall +Optrs\_strongly\_typed +Owhole\_program\_mode  
 176.gcc: +Oall +ESlit +ESfic  
 181.mcf: +Oall +Opromote\_indirect\_calls  
 186.crafty: basepeak



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## Notes/Tuning Information (Continued)

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197.parser: +Oall +Odataprefetch +ESfic +Oinline_budget=400
252.eon: +noeh +O4 +Optrs_strongly_typed +Olibcalls
253.perlbnk: +Oall +ESlit +ESfic -Wl,/opt/langtools/lib/fastmem.o
254.gap: basepeak
255.vortex: +Oall +Oinline_budget=800 +Optrs_strongly_typed
           -Wl,/opt/langtools/lib/fastmem.o
256.bzip2: +Oall +Odataprefetch +Optrs_strongly_typed
300.twolf: +Oall +Optrs_strongly_typed
Kernel tunables:
vps_pagesize=4096, vps_ceiling=16384, maxdsiz=0X04000000, maxssiz=0X10000000
2nd processor disabled at boot - co cpu 1 off
Event Monitoring System disabled.
```