



# CINT2000 Result

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## Sun Microsystems Sun Enterprise 450

SPECint2000 = 234  
SPECint\_base2000 = 225

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Aug-2000 Hardware Avail: Aug-2000 Software Avail: Oct-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	851	165	851	165	
175.vpr	1400	662	212	634	221	
176.gcc	1100	474	232	470	234	
181.mcf	1800	506	356	499	361	
186.crafty	1000	571	175	571	175	
197.parser	1800	853	211	829	217	
252.eon	1300	622	209	608	214	
253.perlbnk	1800	729	247	706	255	
254.gap	1100	642	171	642	171	
255.vortex	1900	626	304	506	375	
256.bzip2	1500	633	237	614	244	
300.twolf	3000	1235	243	1110	270	

### Hardware

CPU: UltraSPARC II  
 CPU MHz: 480  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1 to 4  
 Parallel: None  
 Primary Cache: 16KBI+16KBD on chip  
 Secondary Cache: 8MB(I+D) off chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 512MB  
 Disk Subsystem: 2\*9.1GB(7200 RPM)

Other Hardware:

### Software

Operating System: Solaris 8  
 Compiler: Forte Developer 6 update 1  
 File System: UFS  
 System State: single user

## Notes/Tuning Information

Portability: 176.gcc: -Dalloca=\_\_builtin\_alloca -DHOST\_WORDS\_BIG\_ENDIAN  
 Portability: 186.crafty: -DSUN  
 Portability: 252.eon: -library=iostream,no%Cstd  
 Portability: 253.perlbnk: -DSPEC\_CPU2000\_SOLARIS  
 Portability: 254.gap: -DSYS\_IS\_USG -DSYS\_HAS\_TIME\_PROTO -DSYS\_HAS\_SIGNAL\_PROTO -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_HAS\_IOCTL\_PROTO

Base C flags: -fast -xcrossfile -xprofile  
 Base C++ flags: -fast -xcrossfile -xprofile

Peak flags:  
 164.gzip : -fast -xcrossfile -xprofile  
 175.vpr : -fast -xalias\_level=std -xcrossfile -xprofile -dn  
 176.gcc : -fast -xcrossfile -xprofile -dn  
 181.mcf : -fast -xcrossfile -xprofile -dn  
 186.crafty : -fast -xcrossfile -xprofile  
 197.parser : -fast -xalias\_level=std -xcrossfile -xprofile -dn  
 252.eon : -fast -xcrossfile -xprofile -dn



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## Notes/Tuning Information (Continued)

```
253.perlbnk: -fast -xalias_level=std -xcrossfile -xprofile -dn
254.gap      : -fast -xcrossfile -xprofile
255.vortex  : -fast -xsafe=mem -xcrossfile -W2,-Mt500,-Mr6000,-crit -xalias_level=std -xprofile -dn
256.bzip2   : -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=std -Wc,-Qiselect-funcalign=32 -xprofile -dn
300.twolf   : -fast -xO5 -xarch=v8plus -W2,-whole -xprofile
```

Proper operation of -xcrossfile requires simultaneous presentation of all source files to the compiler. This is accomplished within the SPECcpu2000 suite by setting ONESTEP = yes.