



# CINT2000 Result

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Sun Microsystems  
Sun Enterprise 450

SPECint\_rate2000 = 10.9  
SPECint\_rate\_base2000 = 10.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	851	7.63	4	851	7.63
175.vpr	4	654	9.93	4	631	10.3
176.gcc	4	539	9.47	4	466	11.0
181.mcf	4	521	16.0	4	538	15.5
186.crafty	4	501	9.26	4	501	9.26
197.parser	4	843	9.90	4	817	10.2
252.eon	4	615	9.81	8	1205	10.0
253.perlbnk	4	716	11.7	8	1409	11.9
254.gap	4	685	7.45	4	685	7.45
255.vortex	4	619	14.2	4	514	17.1
256.bzip2	4	628	11.1	4	607	11.5
300.twolf	4	1223	11.4	4	1100	12.7

### Hardware

CPU: UltraSPARC II  
 CPU MHz: 480  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 chips, 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: 1024MB  
 Disk Subsystem: 1\*9.1GB(7200 RPM) + 1\*4.5GB(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.