



# CINT2000 Result

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Sun Microsystems  
Sun Enterprise 3500/4500

SPECint\_rate2000 = 19.5  
SPECint\_rate\_base2000 = 18.2

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Sep-2000 Hardware Avail: Dec-1998 Software Avail: Oct-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	996	13.0	8	942	13.8
175.vpr	8	765	17.0	8	751	17.3
176.gcc	8	545	18.7	8	545	18.7
181.mcf	8	595	28.1	8	570	29.3
186.crafty	8	589	15.8	8	560	16.6
197.parser	8	978	17.1	8	932	17.9
252.eon	8	697	17.3	8	622	19.4
253.perlbnk	8	825	20.2	8	765	21.8
254.gap	8	742	13.8	8	747	13.7
255.vortex	8	725	24.3	8	572	30.8
256.bzip2	8	737	18.9	8	689	20.2
300.twolf	8	1483	18.8	8	1289	21.6

### Hardware

CPU: UltraSPARC-II  
 CPU MHz: 400  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
 CPU(s) orderable: 1-8/1-14  
 Parallel: None  
 Primary Cache: 16KBI+16KBD on chip  
 Secondary Cache: 8MB(I+D) off chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8GB  
 Disk Subsystem: 6 x 9GB  
 Other Hardware: --

### Software

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

## Notes/Tuning Information

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

Base: -fast -xcrossfile -xprofile

#### Peak:

164.gzip: -fast -xalias\_level=std -xcrossfile -xprofile  
 175.vpr: -fast -xalias\_level=std -xcrossfile -xdepend -xregs=syst -xprofile  
 176.gcc: -fast -xcrossfile -Wc,-Qgsched-trace\_late=1,-Qgsched-T4 -xprofile  
 181.mcf: -fast -xcrossfile -xdepend -Wc,-Qgsched-trace\_late=1,-Qgsched-T4 -xsafe=mem -xprofile  
 186.crafty: -fast -xalias\_level=strong -xcrossfile -xregs=syst  
 -Wc,-Qgsched-trace\_late=1,-Qgsched-T4 -xprofile  
 197.parser: -fast -xalias\_level=strong -xcrossfile -xdepend -xregs=syst  
 -Wc,-Qgsched-trace\_late=1,-Qgsched-T4 -xprofile



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## Notes/Tuning Information (Continued)

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252.eon:      -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict
              -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile
253.perlbnk: -fast -xalias_level=std -xcrossfile -xsafe=mem -xprofile
              -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
254.gap:      -fast -xarch=v8 -xalias_level=std -xcrossfile -Wc,-Qiselect-funcalign=32 -xprofile
255.vortex:   -fast -xsafe=mem -xcrossfile -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit
              -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0
              -xrestrict -xdepend -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
256.bzip2:    -fast -xalias_level=strong -xarch=v8 -W2,-Abopt -xcrossfile
              -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
300.twolf:    -fast -xalias_level=strong -W2,-whole -xsafe=mem -xprofile
ONESTEP=yes for both base and peak

```