



# CINT2000 Result

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Sun Microsystems  
Sun Enterprise 3500/4500

SPECint2000 = 212  
SPECint\_base2000 = 198

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	976	143	955	147	
175.vpr	1400	768	182	746	188	
176.gcc	1100	531	207	532	207	
181.mcf	1800	567	317	539	334	
186.crafty	1000	593	169	567	176	
197.parser	1800	988	182	938	192	
252.eon	1300	684	190	626	208	
253.perlbmk	1800	836	215	775	232	
254.gap	1100	720	153	716	154	
255.vortex	1900	725	262	556	342	
256.bzip2	1500	738	203	687	218	
300.twolf	3000	1413	212	1266	237	

### Hardware

CPU: UltraSPARC-II  
CPU MHz: 400  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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.perlbmk: -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

```