



# CINT2000 Result

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Sun Microsystems  
Sun Enterprise 4500

SPECint\_rate2000 = 34.5  
SPECint\_rate\_base2000 = 32.0

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	14	964	23.6	14	928	24.5
175.vpr	14	755	30.1	14	736	30.9
176.gcc	14	557	32.1	14	561	31.9
181.mcf	14	598	48.9	14	574	50.9
186.crafty	14	577	28.1	14	551	29.5
197.parser	14	961	30.4	14	916	31.9
252.eon	14	662	31.9	14	607	34.8
253.perlbnk	14	819	35.7	14	782	37.4
254.gap	14	748	23.9	14	752	23.7
255.vortex	14	745	41.4	14	549	56.2
256.bzip2	14	716	34.0	14	668	36.5
300.twolf	14	1520	32.1	14	1230	39.6

### Hardware

CPU: UltraSPARC-II  
CPU MHz: 400  
FPU: Integrated  
CPU(s) enabled: 14 cores, 14 chips, 1 core/chip  
CPU(s) orderable: 1-14  
Parallel: None  
Primary Cache: 16KBI+16KBD on chip  
Secondary Cache: 8MB(I+D) off chip  
L3 Cache: None  
Other Cache: None  
Memory: 12GB  
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

```