



# CINT2000 Result

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Sun Microsystems  
Sun Fire 6800

SPECint\_rate2000 = 101  
SPECint\_rate\_base2000 = 96.1

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Jun-2001 Hardware Avail: Mar-2001 Software Avail: Jul-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	24	474	82.3	24	468	83.3
175.vpr	24	469	83.1	24	450	86.7
176.gcc	24	374	81.9	24	316	97.0
181.mcf	24	563	88.9	24	572	87.6
186.crafty	24	250	111	24	241	115
197.parser	24	518	96.8	24	492	102
252.eon	24	341	106	24	313	116
253.perlbnk	24	484	103	24	464	108
254.gap	24	498	61.5	24	493	62.1
255.vortex	24	414	128	24	365	145
256.bzip2	24	344	121	24	344	122
300.twolf	24	753	111	24	718	116

### Hardware

CPU: UltraSPARC-III  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 24 cores, 24 chips, 1 core/chip  
 CPU(s) orderable: 2 to 24  
 Parallel: None  
 Primary Cache: 32KBI+64KBD on chip  
 Secondary Cache: 8MB(I+D) off chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 48GB  
 Disk Subsystem: 2x18GB (system disks)  
 4x(9x18GB raid5) 4-way striped  
 Other Hardware:

### Software

Operating System: Solaris 8 4/01  
 Compiler: Sun Forte Developer 6u2  
 File System: UFS  
 Veritas VxVM  
 System State: Multi-user

## Notes/Tuning Information

Portability: 252.eon: -library=iostream,no%Cstd

Base C flags: -fast -xcrossfile -xprofile -xalias\_level=basic

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

Note: ONESTEP=yes for all benchmarks in base and peak

164.gzip: -fast -xalias\_level=std -xcrossfile -W2,-whole -xprofile

175.vpr: -fast -xalias\_level=std -xcrossfile -xdepend -xregs=syst  
-W2,-whole -xprofile

176.gcc: -fast -xcrossfile -W2,-whole -xprofile -dn

181.mcf: -fast -xcrossfile -xdepend -Wc,-Qgsched-trace\_late=1,  
-Qgsched-T4 -xsafe=mem -xprofile

186.crafty -fast -xcrossfile -Wc,-Qgsched-trace\_late=1,-Qgsched-T4  
-xalias\_level=strong -xregs=syst -xchip=ultra2 -xprofile

197.parser -fast -xcrossfile -xdepend -xprofile -xregs=syst -Wc,  
-Qgsched-trace\_late=1,-Qgsched-T4 -xalias\_level=strong



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## Notes/Tuning Information (Continued)

```
252.eon -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,  
-restrict_g,-restrict -Qoption cg -Qgsched-trace_late=1,  
-Qgsched-T4 -xprofile -lmopt  
253.perlbmk -fast -xcrossfile -Wc,-Qgsched-trace_late=1,  
-Qgsched-T4,-Qgsched-trace_spec_load=1  
-xalias_level=std -xsafe=mem -xprofile  
254.gap -fast -xarch=v8 -W2,-crit,-whole -xcrossfile  
-Wc,-Qiselect-funcalign=32 -xalias_level=std -xprofile  
255.vortex -fast -xsafe=mem -xcrossfile -W2,-Aheap,-reroll=1,  
-Aunroll,-Msl,-Mt500,-Mr6000,-crit -xrestrict -xdepend  
-Wc,-Qdepgraph-early_cross_call=1 -xprofile  
-Wc,-Qiselect-funcalign=32 -Wc,-Qpeep-Sh0  
-Wc,-Qgsched-trace_late=1,-Qgsched-T4  
256.bzip2 -fast -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=std  
-Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile  
300.twolf -fast -xalias_level=std -xcrossfile -W2,-whole -xsafe=mem  
-xprofile
```