



# CINT2000 Result

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Sun Microsystems  
Sun Fire 280R

SPECint2000 = 390  
SPECint\_base2000 = 366

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	486	288	482	290	
175.vpr	1400	434	322	404	347	
176.gcc	1100	270	408	268	410	
181.mcf	1800	432	416	404	445	
186.crafty	1000	275	364	252	397	
197.parser	1800	528	341	486	370	
252.eon	1300	342	380	320	406	
253.perlbnk	1800	476	378	452	398	
254.gap	1100	423	260	417	264	
255.vortex	1900	390	487	328	579	
256.bzip2	1500	361	415	337	445	
300.twolf	3000	760	395	711	422	

### Hardware

CPU: UltraSPARC-III  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1-2  
 Parallel: None  
 Primary Cache: 32KBI+64KBD on chip  
 Secondary Cache: 8MB(I+D) off chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4GB  
 Disk Subsystem: 1 x 36GB + 1 x 9GB  
 Other Hardware: --

### Software

Operating System: Solaris 8 1/01  
 Compiler: Forte Developer 6 update 1 with patches  
 File System: UFS  
 System State: single user

## Notes/Tuning Information

### Portability:

```
176.gcc      : -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty   : -DSUN
252.eon      : -library=iostream
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 Flags:

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

### Peak Flags:

```
164.gzip     : -fast -xalias_level=std -xcrossfile -W2,-whole -xprofile
175.vpr      : -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst -W2,-whole -xprofile -lmopt
176.gcc      : -fast -xcrossfile -W2,-whole -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 -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong -xregs=syst -xchip=ultra2 -xprofile
197.parser   : -fast -xcrossfile -xdepend -xregs=syst -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong -xprofile
252.eon      : -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict
```



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## Notes/Tuning Information (Continued)

-Qoption cg -Qgsched-trace\_late=1,-Qgsched-T4 -xprofile

```

253.perlbnk : -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,-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 -xarch=v8 -W2,-Abopt -xcrossfile -xalias_level=strong -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
300.twolf    : -fast -xalias_level=strong -W2,-whole -xsafe=mem -xprofile

```

Note: ONESTEP=yes for all benchmarks.

Note: Forte Developer 6 update 1 patches include:

109503-02,109504-01,109505-08,109506-02,109508-04,109510-01,109513-06

System configuration details located (as of 06/26/2001) at <http://www.sun.com/servers/workgroup/280r>  
Patch 111228-01 and obp 4.0.46 (or later) is required.