



# CINT2000 Result

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Sun Microsystems  
Sun Blade 1000 Model 2900

SPECint\_rate2000 = 10.7  
SPECint\_rate\_base2000 = 10.0

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	411	7.91	2	407	7.98
175.vpr	2	374	8.68	2	348	9.34
176.gcc	2	228	11.2	2	225	11.3
181.mcf	2	410	10.2	2	387	10.8
186.crafty	2	226	10.3	2	208	11.2
197.parser	2	432	9.66	2	399	10.5
252.eon	2	282	10.7	2	265	11.4
253.perlbnk	2	395	10.6	2	378	11.0
254.gap	2	380	6.72	4	746	6.84
255.vortex	2	329	13.4	2	276	15.9
256.bzip2	2	302	11.5	2	278	12.5
300.twolf	2	620	11.2	2	589	11.8

### Hardware

CPU: UltraSPARC-III  
CPU MHz: 900  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 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: 1GB  
Disk Subsystem: 1 x 18GB  
Other Hardware: --

### Software

Operating System: Solaris 8 10/00  
Compiler: Forte Developer 6 update 1 w/ latest 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 C flags: -fast -xcrossfile -xprofile
Base C++ flags: -fast -xcrossfile -xprofile
```

### Peak:

```
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
```



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## Notes/Tuning Information (Continued)

```
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
         -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile

253.perlbnk: -fast -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
            -xcrossfile -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.

Forte Developer 6 update 1 patches include:  
109503-02,109504-01,109505-08,109506-02,109508-04,109510-01,109513-06

Patch 111228-01 and obp 4.0.40 (or later) is required.

System configuration details located (as of June 2001) at  
<http://www.sun.com/desktop/sunblade1000>