



# CINT2000 Result

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Sun Microsystems  
Sun Blade 2000 (1.015GHz)

SPECint\_rate2000 = 13.2  
SPECint\_rate\_base2000 = 11.8

SPEC license #: 6 Tested by: Sun Microsystems, Santa Clara Test date: Sep-2002 Hardware Avail: Oct-2002 Software Avail: Aug-2002

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	350	9.27	2	329	9.87
175.vpr	2	322	10.1	2	291	11.2
176.gcc	2	205	12.4	2	181	14.1
181.mcf	2	339	12.3	2	303	13.8
186.crafty	2	180	12.9	2	151	15.4
197.parser	2	390	10.7	2	316	13.2
252.eon	2	230	13.1	2	220	13.7
253.perlbnk	2	347	12.0	2	322	13.0
254.gap	2	311	8.22	2	309	8.25
255.vortex	2	270	16.3	2	207	21.3
256.bzip2	2	256	13.6	2	244	14.2
300.twolf	2	555	12.5	2	496	14.0

### Hardware

CPU: UltraSPARC III Cu  
 CPU MHz: 1015  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 1-2  
 Parallel: No  
 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 73GB  
 Other Hardware: None

### Software

Operating System: Solaris 8 02/02  
 Compiler: Sun ONE Studio 7 and Sun Performance Library 7  
 File System: ufs  
 System State: Multi-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
```

### Profile Feedback (-xprofile):

```
fdo_pre0: rm -rf ./feedback.profile ./SunWS_cache
Pass 1: -xprofile=collect:./feedback
Pass 2: -xprofile=use:./feedback
```

### Base Flags:

```
Base C flags: -fast -xcrossfile -l12amm -xprofile
Base C++ flags: -fast -xcrossfile -xprofile
ONESTEP=yes for all benchmarks in base
```

### Peak Flags:

```
164.gzip: -xO5 -xtarget=native -xalias_level=std -W2,-whole -xcrossfile -W2,-Ainline -xprofile
```



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## Notes/Tuning Information (Continued)

```

175.vpr: -fast -xalias_level=std -xcrossfile -xsfpcnst -W2,-whole
        -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1,-Qeps:rp_filtering_margin=100
        -xregs=syst -lmopt -xprofile
176.gcc: -fast -xcrossfile -W2,-whole -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -l12amm -xprofile
181.mcf: -fast -xcrossfile -Wc,-Qms_pipe-pref,-Qlp=1-fa=1-av=64-t=3-fl=1
        -lprism32 -xprofile
186.crafty: -fast -xF -xinline= -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4
        -xalias_level=strong -xregs=syst -W2,-Ashort_ldst,-Aivel:duplicate_loops
        -xprofile
197.parser: -fast -xprefetch=no%auto -xcrossfile -xregs=syst
        -Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xalias_level=strong -Wc,-Qipa:valueprediction -xprofile
252.eon: -fast -xcrossfile -xalias_level=compatible -xsafe=mem -Qoption iropt -Mt500,-xrestrict
        -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -dn -lmopt -xprofile
253.perlbmk: -xO5 -xtarget=native -xcrossfile -xalias_level=std -xsafe=mem
        -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
        -Wc,-Qinline_memcpy=32 -Wc,-Qiselect-funcalign=32,-Qicache-chbab=1
        -Wc,-Qiselect-sw_pf_tbl_th=20 -xprofile
254.gap: -fast -xcrossfile -xalias_level=std -xprefetch -W2,-whole -lprism32 -xprofile
255.vortex: -fast -xcrossfile -Wc,-Qeps:enabled=1,-Qeps:do_spec_load=1
        -Wc,-Qinline_memcpy=32 -W2,-Aheap,-reroll=1,-Aunroll,-Ms1,-Mt500,-Mr6000,-crit
        -Wc,-Qdepgraph-early_cross_call=1 -Wc,-Qiselect-funcalign=32
        -Wc,-Qpeep-Sh0 -xrestrict -l12amm -lprism32 -xprofile
256.bzip2: -fast -W2,-Abopt -xcrossfile -xalias_level=strong
        -Wc,-Qiselect-funcalign=32 -xregs=syst -xprofile
300.twolf: -fast -xalias_level=strong -xsafe=mem -xcrossfile -xprefetch=no%auto
        -Wc,-Qms_pipe+intdivusefp -xprofile
ONESTEP=yes for all benchmarks in peak

```

### Shell Environments:

```

LD_LIBRARY_PATH=/usr/lib:/opt/SUNWspro/lib/v8plusb:/opt/SUNWspro/prod/lib/v8plusb
PRISM_HEAP=268435456
PRISM_MODE=2

```

Stack size set to unlimited via "ulimit -s unlimited"

Software Patches: All patches for the Sun ONE Studio 7 Compiler (Product Patches and OS patches) as recommended by <http://access1.sun.com/sundev/sls7-patches.html> on Aug the 7th, 2002 were installed (111704-03 111705-02 111706-01 111708-01 111709-01 111714-01 111715-01 111716-02 111718-01 111723-01 108434-08 108435-08 111697-03 111721-02)