



# CINT2000 Result

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Sun Microsystems  
Sun Blade 150 (650 MHz)

SPECint2000 = 246  
SPECint\_base2000 = 230

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Aug-2002 Hardware Avail: Aug-2002 Software Avail: Aug-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	543	258	498	281	
175.vpr	1400	756	185	724	193	
176.gcc	1100	521	211	517	213	
181.mcf	1800	1289	140	1289	140	
186.crafty	1000	387	258	353	283	
197.parser	1800	861	209	751	240	
252.eon	1300	431	301	390	334	
253.perlbmk	1800	565	319	539	334	
254.gap	1100	546	201	544	202	
255.vortex	1900	561	339	435	436	
256.bzip2	1500	683	220	663	226	
300.twolf	3000	1515	198	1493	201	

### Hardware

CPU: UltraSPARC IIi  
 CPU MHz: 650  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 16KBI+16KBD on chip  
 Secondary Cache: 512KB (I+D) on chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 256MB  
 Disk Subsystem: 1 x Seagate ST340016A  
 Other Hardware: None

### Software

Operating System: Solaris 8 2/02  
 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.perlbmk: -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 -xprofile
Base C++ flags: -fast -xcrossfile -xprofile
```

### Peak Flags:

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



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## Notes/Tuning Information (Continued)

```

-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 -xprofile
181.mcf: basepeak=yes
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 -xchip=generic -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=no%auto -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 -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 -xprofile

```

ONESTEP=yes for all benchmarks in base and peak

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)