



CINT2000 Result

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Sun Microsystems Sun Blade 150 (550 MHz)

SPECint2000 = 217
SPECint_base2000 = 202

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	642	218	587	239	
175.vpr	1400	844	166	806	174	
176.gcc	1100	570	193	565	195	
181.mcf	1800	1353	133	1353	133	
186.crafty	1000	456	219	417	240	
197.parser	1800	984	183	851	211	
252.eon	1300	510	255	461	282	
253.perlbmk	1800	661	272	630	286	
254.gap	1100	621	177	618	178	
255.vortex	1900	649	293	500	380	
256.bzip2	1500	763	197	740	203	
300.twolf	3000	1684	178	1658	181	

Hardware

CPU: UltraSPARC IIi
 CPU MHz: 550
 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
```



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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 -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.perlbnk: -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)