



CINT2000 Result

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Sun Microsystems
Sun Fire 280R

SPECint2000 = 394
SPECint_base2000 = 375

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	471	297	467	300	
175.vpr	1400	436	321	417	336	
176.gcc	1100	270	407	266	414	
181.mcf	1800	409	440	407	442	
186.crafty	1000	247	406	239	418	
197.parser	1800	512	352	489	368	
252.eon	1300	345	377	317	411	
253.perlbnk	1800	480	375	453	397	
254.gap	1100	424	259	411	267	
255.vortex	1900	388	490	327	582	
256.bzip2	1500	340	441	327	458	
300.twolf	3000	755	397	713	421	

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 2
 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 -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
```



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Notes/Tuning Information (Continued)

```

-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 -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=std -W2,-whole -xsafe=mem -xprofile

```

Note:

ONESTEP=yes for all benchmarks.

System configuration details located (as of Jun 2001)
at <http://www.sun.com/servers/workgroup/280r>