



CINT2000 Result

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Sun Microsystems
Sun Fire 280R

SPECint_rate2000 = 9.07

SPECint_rate_base2000 = 8.63

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	463	7.02	2	462	7.03
175.vpr	2	438	7.42	2	422	7.69
176.gcc	2	271	9.43	2	268	9.53
181.mcf	2	453	9.22	2	442	9.44
186.crafty	2	247	9.37	2	236	9.83
197.parser	2	509	8.21	2	483	8.65
252.eon	2	344	8.78	2	314	9.60
253.perlbnk	2	478	8.73	2	452	9.25
254.gap	2	437	5.84	2	429	5.96
255.vortex	2	387	11.4	2	330	13.4
256.bzip2	2	339	10.3	2	325	10.7
300.twolf	2	749	9.29	2	708	9.83

Hardware

CPU: UltraSPARC-III
 CPU MHz: 750
 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: 4GB
 Disk Subsystem: 2 x 36GB
 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.perlbmk    : -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>