



CINT2000 Result

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Sun Microsystems Sun Fire 280R

SPECint_rate2000 = 8.96
SPECint_rate_base2000 = 8.41

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	486	6.69	2	482	6.74
175.vpr	2	442	7.35	2	412	7.89
176.gcc	2	277	9.20	2	272	9.39
181.mcf	2	458	9.13	2	432	9.66
186.crafty	2	276	8.40	2	252	9.22
197.parser	2	527	7.92	2	483	8.64
252.eon	2	341	8.84	2	319	9.46
253.perlbnk	2	473	8.83	2	453	9.23
254.gap	2	437	5.84	4	862	5.92
255.vortex	2	392	11.3	2	333	13.3
256.bzip2	2	360	9.66	2	336	10.3
300.twolf	2	755	9.22	2	709	9.82

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: 1 x 36GB + 1 x 9GB
Other Hardware: --

Software

Operating System: Solaris 8 1/01
Compiler: Forte Developer 6 update 1 with patches
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 -W2,-whole -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 -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
```



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Notes/Tuning Information (Continued)

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

```

Note: ONESTEP=yes for all benchmarks.

Note: Forte Developer 6 update 1 patches include:

109503-02,109504-01,109505-08,109506-02,109508-04,109510-01,109513-06

System configuration details located (as of 06/26/2001) at <http://www.sun.com/servers/workgroup/280r>
Patch 111228-01 and obp 4.0.46 (or later) is required.