



CINT2000 Result

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Sun Microsystems
Sun Fire 280R

SPECint_rate2000 = 8.97

SPECint_rate_base2000 = 8.39

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Dec-2000 Hardware Avail: Jan-2001 Software Avail: Jan-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	527	6.16	2	478	6.79
175.vpr	2	440	7.39	2	409	7.93
176.gcc	2	274	9.31	2	270	9.45
181.mcf	2	465	8.98	2	431	9.69
186.crafty	2	273	8.49	2	255	9.09
197.parser	2	525	7.96	2	488	8.56
252.eon	2	334	9.04	2	326	9.26
253.perlbnk	2	469	8.90	2	452	9.24
254.gap	2	440	5.80	4	863	5.92
255.vortex	2	387	11.4	2	326	13.5
256.bzip2	2	360	9.67	2	332	10.5
300.twolf	2	758	9.19	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: 2
Parallel: No
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 36 GB + 1 x 9 GB
Other Hardware: --

Software

Operating System: Solaris 8 update 3
Compiler: Forte Developer 6 update 1
File System: UFS
System State: Single user

Notes/Tuning Information

Portability: 176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
Portability: 186.crafty: -DSUN
Portability: 252.eon: -library=iostream,no%Cstd
Portability: 254.gap: -DSYS_IS_USG -DSYS_HAS_TIME_PROTO -DSYS_HAS_TIME_PROTO -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_IOCTL_PROTO
Base C flags: -fast -xcrossfile -xprofile
Base C++ flags: -fast -xcrossfile -xprofile MATHLIBOPT=
Peak:
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
-Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile -lmopt
253.perlbnk: -fast -xcrossfile -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1



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Notes/Tuning Information (Continued)

```
-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 in base and peak for all benchmarks.
```

Note: Forte Developer 6 update 1 patches include:
109505-08,109508-04,109513-06

For results with patch 111228-01 and obp 4.0.40 or later (included
in standard configuration) see publication in July-2001