



CINT2000 Result

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Sun Microsystems
Sun Enterprise 3500/4500

SPECint_rate2000 = 4.86
SPECint_rate_base2000 = 4.53

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Sep-2000 Hardware Avail: Dec-1998 Software Avail: Oct-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	983	3.31	2	959	3.39
175.vpr	2	775	4.19	2	753	4.32
176.gcc	2	542	4.71	2	541	4.72
181.mcf	2	586	7.13	2	556	7.52
186.crafty	2	595	3.90	2	574	4.04
197.parser	2	998	4.19	2	948	4.40
252.eon	2	690	4.37	2	632	4.77
253.perlbnk	2	848	4.93	2	783	5.33
254.gap	2	738	3.46	2	744	3.43
255.vortex	2	735	6.00	2	561	7.86
256.bzip2	2	746	4.67	2	692	5.03
300.twolf	2	1455	4.78	2	1272	5.47

Hardware

CPU: UltraSPARC-II
CPU MHz: 400
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1-8/1-14
Parallel: None
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 8MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 8GB
Disk Subsystem: 6 x 9GB
Other Hardware: --

Software

Operating System: Solaris 8
Compiler: Forte Developer 6 update 1
File System: UFS
System State: multiuser

Notes/Tuning Information

Portability:
176.gcc: -Dalloca=__builtin_alloca -DHOST_WORDS_BIG_ENDIAN
186.crafty: -DSUN
252.eon: -library=iostream,no%Cstd
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: -fast -xcrossfile -xprofile

Peak:

164.gzip: -fast -xalias_level=std -xcrossfile -xprofile
175.vpr: -fast -xalias_level=std -xcrossfile -xdepend -xregs=syst -xprofile
176.gcc: -fast -xcrossfile -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 -xalias_level=strong -xcrossfile -xregs=syst
-Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile
197.parser: -fast -xalias_level=strong -xcrossfile -xdepend -xregs=syst
-Wc,-Qgsched-trace_late=1,-Qgsched-T4 -xprofile



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Notes/Tuning Information (Continued)

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252.eon:      -fast -xcrossfile -xsafe=mem -Qoption iropt -Mt500,-restrict_g,-restrict
              -Qoption cg -Qgsched-trace_late=1,-Qgsched-T4 -xprofile
253.perlbnk: -fast -xalias_level=std -xcrossfile -xsafe=mem -xprofile
              -Wc,-Qgsched-trace_late=1,-Qgsched-T4,-Qgsched-trace_spec_load=1
254.gap:     -fast -xarch=v8 -xalias_level=std -xcrossfile -Wc,-Qiselect-funcalign=32 -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 -xalias_level=strong -xarch=v8 -W2,-Abopt -xcrossfile
              -Wc,-Qiselect-funcalign=32 -xdepend -xregs=syst -xprofile
300.twolf:   -fast -xalias_level=strong -W2,-whole -xsafe=mem -xprofile
ONESTEP=yes for both base and peak

```