



CINT2000 Result

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Sun Microsystems
Sun Fire V240 (1002MHz)

SPECint_rate2000 = 11.8
SPECint_rate_base2000 = 10.3

SPEC license #: 6 Tested by: Sun Microsystems Test date: Mar-2003 Hardware Avail: May-2003 Software Avail: May-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	335	9.68	2	273	11.9
175.vpr	2	374	8.69	2	348	9.33
176.gcc	2	246	10.4	2	190	13.4
181.mcf	2	863	4.84	2	555	7.52
186.crafty	2	177	13.1	2	154	15.1
197.parser	2	461	9.06	2	413	10.1
252.eon	2	208	14.5	2	201	15.0
253.perlbnk	2	350	11.9	2	320	13.1
254.gap	2	296	8.62	2	254	10.0
255.vortex	2	258	17.1	2	232	19.0
256.bzip2	2	370	9.40	2	358	9.72
300.twolf	2	619	11.3	2	583	11.9

Hardware

CPU: UltraSPARC IIIi
 CPU MHz: 1002
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
 CPU(s) orderable: 1-2
 Parallel: No
 Primary Cache: 32KBI+64KBD on chip
 Secondary Cache: 1MB(I+D) on chip
 L3 Cache: None
 Other Cache: None
 Memory: 8GB 16-way interleaved
 Disk Subsystem: 2 x 36GB SEAGATE ST336605L
 Other Hardware: None

Software

Operating System: Solaris 8 HW 12/02
 Compiler: Sun ONE Studio 8 (pre-FCS build 03/9)
 Sun Performance Library 8 (pre-FCS build 03/9)
 File System: ufs with ufs logging
 System State: Multi-User

Notes/Tuning Information

SPEC has determined that this result was not in compliance with the SPEC continued availability policy. Specifically, although the configuration tested was available within the required 3 months of publication, it was then unavailable for a period of 30 days or more during the first 90 days after initial overall availability. The vendor informs SPEC that the configuration is again available, on or before the date of this notice, 08/13/2003.

Compiler invocation:
 C: cc
 CXX: CC
 F90: f90
 F77: f90



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Notes/Tuning Information (Continued)

Integer base flags:

-fast -xipo=2 with ONESTEP=yes and feedback

Integer peak flags:

ONESTEP=yes and feedback for all benchmarks

164.gzip: -xO5 -xbuiltin=%all -xtarget=native -xalias_level=std
-xipo=2 -Wc,-Qeps:enabled=1,-Qeps:rp_filtering_margin=100

175.vpr: -fast -xalias_level=std -xipo=2
-Wc,-Qeps:enabled=1,-Qeps:rp_filtering_margin=100 -lmopt -lm

176.gcc: -fast -xipo=2 -ll2amm

181.mcf: -fast -xipo=2 -xprefetch_level=3 -Wc,-Qeps:enabled=1
-W2,-Apf:l1list=3:noinnerl1list

186.crafty: -fast -xinline= -xipo=2 -xalias_level=strong -W2,-Ashort_ldst
Feedback adds -xlinkopt in PASS2

197.parser: -fast -xipo=2 -xalias_level=strong
-Wc,-Qgsched-T6,-Qipa:valueprediction

252.eon: -fast -xipo=2 -xalias_level=compatible -noex
-Qoption cg -Qeps:enabled=1,-Qeps:ws=32

253.perlbnk: -xO5 -xtarget=native -xipo -xalias_level=std -xsafe=mem
-Wc,-Qeps:enabled=1,-Qeps:ws=8,-Qiselect-sw_pf_tbl_th=20,
-Qiselect-funcalign=32,-Qicache-chbab=1

254.gap: -fast -xipo=2 -xalias_level=strong -xvector
-xprefetch_level=3 -W2,-Abcopy

255.vortex: -fast -xrestrict -xipo=2
-W2,-crit,-Ainline:recursion=1:cs=500:irs=6000
-Wc,-Qeps:enabled=1,-Qdepgraph-early_cross_call=1,
-Qiselect-funcalign=32,-Qpeep-Sh0 -ll2amm

256.bzip2: -fast -xipo=2 -xalias_level=strong -xrestrict
-Wc,-Qeps:enabled=1

300.twolf: -fast -xalias_level=strong -xsafe=mem -xipo=2
-xprefetch=no%auto -Wc,-Qms_pipe+intdivusefp

Feedback is done as follows, unless otherwise noted:

fdo_pre0: rm -rf ./feedback.profile ./SunWS_cache
PASS1: -xprofile=collect:./feedback
PASS2: -xprofile=use:./feedback

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

Shell Environments:

Stack size set to unlimited via "ulimit -s unlimited"
PRISM_HEAP=268435456
PRISM_MODE=2

Kernel Parameters (/etc/system):

default
autoup=900
tune_t_fsflushr=1