



CINT2000 Result

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Sun Microsystems
Sun Fire V240 (1002MHz)

SPECint2000 = 553
SPECint_base2000 = 482

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	332	421	271	517	
175.vpr	1400	336	417	311	450	
176.gcc	1100	204	538	180	610	
181.mcf	1800	641	281	386	466	
186.crafty	1000	176	567	153	655	
197.parser	1800	423	426	370	486	
252.eon	1300	207	629	199	652	
253.perlbnk	1800	345	521	318	566	
254.gap	1100	264	416	234	471	
255.vortex	1900	246	773	217	876	
256.bzip2	1500	334	450	325	461	
300.twolf	3000	579	518	540	556	

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1002
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: 4GB 8-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 3/9)
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 -Wc,-Qms_pipe+alldoall

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



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Notes/Tuning Information (Continued)

System Settings:

2nd CPU physically removed from the system