



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Fire V210 (1002MHz)

SPECint_rate2000 = 11.7
SPECint_rate_base2000 = 10.2

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	334	9.73	2	274	11.9
175.vpr	2	372	8.72	2	352	9.23
176.gcc	2	251	10.2	2	193	13.3
181.mcf	2	882	4.74	2	578	7.22
186.crafty	2	177	13.1	2	153	15.2
197.parser	2	463	9.01	2	412	10.1
252.eon	2	207	14.5	2	199	15.2
253.perlbnk	2	353	11.8	2	332	12.6
254.gap	2	295	8.64	2	254	10.0
255.vortex	2	258	17.1	2	230	19.2
256.bzip2	2	386	9.02	2	378	9.21
300.twolf	2	618	11.3	2	585	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: 1 x 36GB SEAGATE ST336605L
Other Hardware: None

Software

Operating System: Solaris 8 HW 12/02
Compiler: Sun ONE Studio 8 (pre-FCS build 3/9)
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



CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Fire V210 (1002MHz)

SPECint_rate2000 = 11.7
SPECint_rate_base2000 = 10.2

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

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:noninnerl1list

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