



CINT2000 Result

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Sun Microsystems Sun Fire V210 (1002MHz)

SPECint2000 = 555
SPECint_base2000 = 485

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	516	
175.vpr	1400	333	420	309	453	
176.gcc	1100	204	540	180	611	
181.mcf	1800	622	289	378	476	
186.crafty	1000	177	566	153	656	
197.parser	1800	421	428	368	489	
252.eon	1300	207	628	200	651	
253.perlbnk	1800	343	524	324	556	
254.gap	1100	262	421	232	475	
255.vortex	1900	244	778	215	883	
256.bzip2	1500	330	454	322	466	
300.twolf	3000	577	520	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: 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

Integer base flags:



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Notes/Tuning Information (Continued)

-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

```

System Settings:



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Notes/Tuning Information (Continued)

2nd CPU physically removed from the system