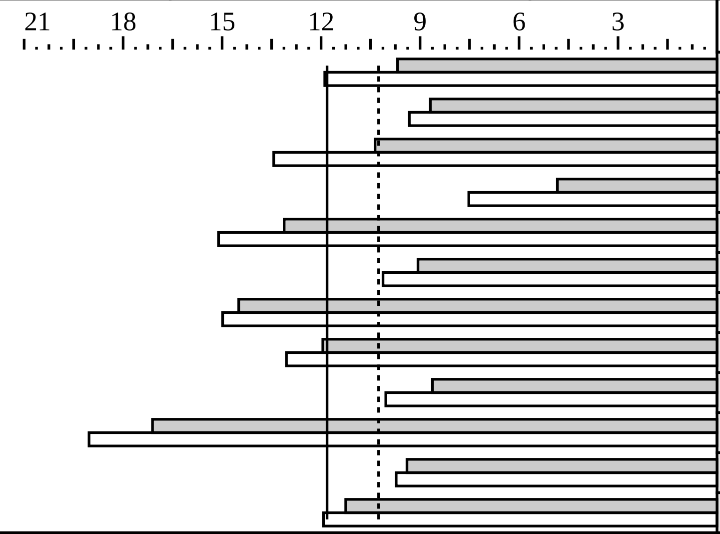
CINT2000 Result

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.perlbmk	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

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  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.

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

CINT2000 Result

Notes/Tuning Information (Continued)

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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:llist=3:noinnerllist
 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.perlbmk: -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.perlbmk: -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
```