### Sun Microsystems
### Sun Fire V250 (1.28GHz)

**SPECint2000 = 702**  
**SPECint_base2000 = 612**

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<th>Base Ratio</th>
<th>Runtime</th>
<th>Ratio</th>
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</tbody>
</table>

**Notes/Tuning Information**

- **Compiler invocation:**
  - C: `cc`
  - CXX: `CC`

- **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`

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Operating System: Solaris 9 8/03  
Compiler: Sun ONE Studio 8  
Sun Performance Library 8  
File System: ufs with ufs logging  
System State: Multi-User
### CINT2000 Result

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### Notes/Tuning Information (Continued)

Feedback adds `-xlinkopt` in **PASS2**

197. parser: `-fast -xipo=2 -xalias_level=strong`
   `-Wc,-Qg sched-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 -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"
- `MPSSHEAP=4M`
- `MPSSSTACK=4M`
- `LD_PRELOAD=mpss.so.1`

### Kernel Parameters (/etc/system):

- `autoup=900`
- `tune_t_fsflushr=1`

### System Settings:

- 2nd CPU physically removed from the system