SVT initialization/simulation status

Bill A, SVT meeting, 2001-03-20

- Goals:
  - init SVT via R_C, from simplest possible input
  - init svtsim from same input; reproduce bit-for-bit
  - straightforward to have/use multiple configurations
  - use CRCs extensively for efficiency, safety
  - simulation flexible, usable in many environments
  - use DBs to record what got loaded for which run
- Progress:
  - replaced hexadecimal memory images with on-crate computation of AMS SS map, AM roads, HB SS map, HB roads, and all TF memories
    - remaining: AMS μseq (code exists), HF, XTF
  - TF fit constants now fixed-point (big job!)
  - working with GP, SB to refine specification for a complete SVT configuration (see slide)
  - Un-ki & I made first attempt to use svtsim on-line, in random test: simulate AMS+AMB+HB+TF ≈OK
  - offline sim, online sim, and coldstart read same files

- Biggest to-do items:
  - Pick SVT configuration from R_C GUI (~1 hour job)
  - Generalize to handle any set of SVX layers (now 0,1,2,3)
  - Interact with GP to collect full set of maps
    - What to use for first shot?
  - How to handle TF flash memory??
  - Use random test to find/fix sim/init bugs
    - Already found/fixed some bugs; tracking down a TF init bug
  - Handle HF, XTF
  - Join integration tests
  - Teach TRGSim++ to read config info from DB