Parameterized Model Inputs

1. Global Options

- 1.1. Number of Threads
 - a) total (integer)
- 1.2. Homogeneous Threads
 - a) true (bool)
 - b) false (bool)

2. Thread Specific Options

- 2.1. Transaction Granularity
 - a) average transaction instruction count (float)
 - b) time series of transaction instruction counts (integer list)
 - c) normalized histogram of transaction instruction counts (float list)

2.2. Transaction Stride

- a) average sequential instruction count (float)
- b) time series of sequential instruction counts (integer list)
- c) normalized histogram of sequential instruction counts (float list)

2.3. Read Set Size

- a) average number of unique transactional loads (float)
- b) time series of unique loads per transaction (integer list)
- c) normalized histogram of unique loads per transaction (float list)

2.4. Write Set Size

- a) average number of unique transactional writes (float)
- b) time series of unique writes per transaction (integer list)
- c) normalized histogram of unique writes per transaction (float list)

2.5. Shared (Conflict-able) Memory Per Transaction

- a) complete = 100% (string)
- b) high random amount >= 50% (string)
- c) low random amount < 50% (string)
- d) minimal at least one per transaction (string)
- e) none -=0% (string)
- f) time series of complete/high/low/minimal/none values (string list)
- g) normalized histogram of complete/high/low/minimal/none (float list 5 entries)

2.6. Conflict Distribution Model

- a) high shared memory read near begin, write near end (string)
- b) random (string)
- c) time series of high/random values (string list)
- d) normalized histogram of high/random values (float list 2 entries)

2.7. Target Transactional Instruction Mix*

- a) normalized MEM / INT / FP (float list 3 entries)
- 2.8. Target Sequential Instruction Mix*
 - a) normalized MEM / INT / FP (float list 3 entries)

^{*} Note that the instruction mix is a target that will be satisfied on a per transaction basis after the minimum number of reads/writes have been achieved within the constraints of the transaction granularity.