EpochX Specification

This document details the assumptions made in the design of EpochX.

* Crossover operates on 2 parent programs but may produce zero or more children.
* Mutation operates on 1 program and produces 1 child program.
* Initialisation is considered a generation with generation number of 0.
* A breeding pool is always used, but if a pool size of less than 0 is used then the pool will be comprised of all programs from the population.
* All problems are considered as fitness minimisation problems.
* All parameters are reloaded from the model each generation, but it is not safe to assume that they are only reloaded once.
* Runs are generational (steady state not currently possible).
* The number of programs in the initial population does not need to be equal to the model’s requested population size.