Worklist for the summer

1. Replacement of RTED with the RTC tool
   1. Sequential part
      1. Run RTED on RTED/C benchmarks
      2. Run RTC on RTED/C benchmarks
      3. Once results are matched, sequential part of RTED can be replaced by RTC
   2. Parallel part
      1. Run RTED on RTED/UPC benchmarks
      2. Run RTC on RTED/UPC benchmarks
         1. This is the work in progress with options of creating a parallel thread, or process
      3. Once results are matched, parallel part of RTED can be replaced by RTC
   3. Once (a) and (b) are complete, RTED can be replaced by RTC.
2. Design of the UPC and pthread support in RTC
   1. Three options
      1. Related threads communicating using simple Linux pipes.
      2. Unrelated processes on the same system using named Linux pipes (FIFOs)
      3. Unrelated processes spread out across the network communicating using sockets
   2. Named Linux pipes (FIFOs) provides relatively cheap communication, while separating the implementation of the metadata checker from the original program itself.
      1. RTC tool wouldn’t need major changes when moving from one metadata checker implementation to another (sequential to parallel checkers, as an example)

Related Work for the UPC checker