FAQ : Indexed Concatenation

Describe the basics of Indexed Concatenation (IC), maybe using Derek's HSC Research Lunch presentation as a starting point.

Describe how the IC can describe an entire (infinite! maybe multiply infinite) causal network generated by a Sessie RuleSet.

Still unknown:

• How to "reduce" (or compress) a network list without using ToNetDifferenceSets.
  ○ We need this in order to continue on the work started by Jeanna Toulouse and Chris Trana
  ○ How will these two reductions compare? Can we move directly from one to the other?
• Can the dimension of the network be read directly from the IC reduced form? (Either one)
• Can IC compress the complete "Evolution" or even the TEvolution (tagged evolution) of the Sessie?
• Can IC be applied in general to repeating strings?
• Can IC be applied to musical notation? "What is the IC reduced form of Beethoven's Nineth?" (Or of one of Bach's Concertos?

Perhaps more fundamentally,

• How can the ReduceSetList algorithm be made more reliable?
  ○ Last year's version only worked about half the time, this new version does better, but needs improvement still.
• We need to step through the algorithm in our meeting, and ask everyone to suggest improvements.
  ○ NOT the code, just the logic of the steps involved.
  ○ A couple nice demos are desperately needed.