1450.4 meeting minutes – 06/25/09

Attendees: Jim O'Reilly, Ajay Khoche, Ernie Wahl

Not present: Markus Seuring, Bruce Parnas

Agenda:
- IEEE Meeting Preamble (No discussion of proprietary information)
- Continued review of binning issues. For reference, please see attached email threads between Ernie and I. We'll use these as reference, as well as the currently-posted syntax document.
- Issues discussed:
    - Move specification of SoftBinDefs and HardBinDefs to BinMap, rather than TestProgram. This will allow easier resolution of BinMap statements, since we know which SoftBinDefs and HardBinDefs are to be used for mapping. TestProgram will allow specification of either BinMap (with its associated SoftBinDefs and HardBinDefs), or of SoftBinDefs (in the case where one would want to use only soft bins for reporting purposes and would not need hard bins).
    - Delete (Bin) axis properties HighestBinSet/LowestBinSet, and replace with MapBinHighest and MapBinLowest. This is a better way to specify the intent of the goal – to support disqualify binning, a la Teradyne Image SW. Default for an axis if property is not specified is MapBinLowest.
    - Need to define syntax for setting/clearing bins on all groups, all axes; single group, all axes; single group, single axis. Currently, we have only keyword All for SetBin, SetBinStop, and ClearBin statements – which refers to all bins, all axes, all groups of a SoftBinDef. Finer granularity is needed (again, to help support disqualify binning strategies).
- Issue(s) besides binning that have arisen:
    - Ordering of statements in the dot4 input stream. Follow define-before-use with the exception of instances referred to by EntryPoints:
        - SoftBinDefs, HardBinDefs, BinMap, Socketdefs, Bariables, TestProgram (including EntryPoints), TestTypes, FlowTypes, Tests, Flows
    - Change EntryPoints keywords from On<entry_event> to On <entry_event> (i.e., change OnStart to On Start). This will allow user-defined keywords to extend the possible list of EntryPoints (though such extensions may not be portable across testers).
    - EntryPoints - currently completely encapsulated in the TestProgram block. Proposal is to make it a separate block which is referenced by the TestProgram block. This would reduce the need for forward references caused by the desire (and need) to have the TestProgram block be defined before any tests or flows that the EntryPoints specify. The reason for considering this approach is so that any variables defined in the TestProgram block would be known by the time we define Tests or Flows, and can be used (directly or as Parameters) by those Test or Flow blocks. If we made the TestProgram block include the EntryPoints definition, then it would have to be defined last to avoid forward references - but then, the variables specified in the test program block would not be known until after all Tests and Flows are defined - which means that in order to allow the TestProgram variables to be "global", a two-pass parsing approach would likely be needed. This could be a very simple first pass, in which the Variables associated with the TestProgram are determined, then a second pass would do a full parse/compile, using the knowledge about the "global" TestProgram variables when parsing the remainder of the dot4 constructs. To be discussed further.

- Actions:
  - Jim:
    - Update syntax document based on latest discussions and agreements.
  - Ernie:
    - Review Jim's updated syntax doc for consistency. Does it accurately represent what we agreed to? Update binning conceptual document to reflect decisions made regarding binmap syntax (ongoing per discussions).

- Next Meeting 07/09/09 (no meeting on 7/2/09).

For reference STIL .4 information can be found at the IEEE STIL website:
http://grouper.ieee.org/groups/1450/ (select the P1450.4 link from the table) or use the direct link
http://grouper.ieee.org/groups/1450/dot4/index.html