1450.4 meeting minutes – 08/17/11

Attendees: Ernie Wahl, Jim O'Reilly
Not present: Markus Seuring, Oleg Erlich, Paul Reuter, Ajay Khoche,

Agenda:
- IEEE Meeting Preamble (No discussion of proprietary information).
- Continue with discussion of section 7.6, Variables and Expressions. Focus on items that represent missing functionality, as outlined in Ernie's email from earlier today (subject: [STDS-1450.4:] Syntax Document Update; date: 8/16/2011 10:37 AM PDT) – and reproduced below:
    - Line 633, 2333: Global, Local, Parent, or CurrentExec: can't be used as variable names. Add "Parent" as relative containment operator.
    - Line 684: variables block StdFlowVars
    - Line 814: When applying operator equals to two Boolean arrays, corresponding cells are compared. When applying operator equals to a Boolean array on the left and a scalar on the right, every cell is compared to the scalar.
    - Line 2199: elaborate on string_expr (added lines 2381 +): String expressions may be formed using concatenation operator +. Array of String and associated operations. Single quoted and unquoted string_expr (Line 1790)
    - Line 2202: Explain interaction with Pattern start/stop locations and relationship to Address/Cycle, e.g.:
        - 1.) the first vector in a PatternBurst is Address/Cycle 0 and increments through the entire PatternBurst
        - 2.) the first vector in each Pattern in the PatternBurst is Address/Cycle 0
        - 3.) one form for each.
    - What's the relationship between PatternBurst/Pattern start/stop locations and what is generated to run on the target tester ?
        - 1.) all vectors are generated but only runs from start to stop
        - 2.) only vectors inclusive of start to stop are generated
        - 3.) no accepted convention
    - Line 2231: had implemented location with wait time but can't remember application, i.e., run to vector then wait x seconds.
    - Line 2235: Floating point values shall have double precision (binary 64-bit) as defined by IEEE Std 754-2008 or better.
    - Line 2333: Enum scope resolution operator, differentiates EnumType::True from True
    - Line 2420: Initialization takes place when ???? e.g., unnamed Variables block when encountered ? Is the Variables block with the standard variables an unnamed block. Can we have several unnamed Variables blocks (all variables end up in the same namespace) ? Named variables block variables are created when referenced (STIL.1: variables block is replicated, i.e., local copy when referenced).
    - Line 2533: 7.6.14 Array Operations (see doc)
    - Line 2561: 7.6.17 Standard Global Variables (see doc)

Summary:
- No quorum, but agreement of the two attendees on the following issues:
- With respect to line numbers in syntax doc dated Aug. 16, 2011:
  - REMOVE crossed out remnants from start-up point
  - Line 633, 2335:
    - RECOMMENDED: Global, Local, Parent, or CurrentExec: can't be used as variable names.
    - RECOMMENDED: Add "Parent" as relative containment operator.
  - Line 684: variables block StdFlowVars. Problem: uncontrollable unnamed Variables block sequence.
    - RECOMMENDED: no named vars blocks, i.e., remove reference to StdFlowVars.
    - RECOMMENDED: standard global variable names are recommended to be placed in the unnamed vars block by the user
  - Line 2562: related to Line 684
    - RECOMMENDED: no Z up/down, designer and test engineer info
  - Line 814, 2534:
    - RECOMMENDED: When applying operator equals to two Boolean arrays, corresponding cells are compared. When applying operator equals to a Boolean array on the left and a scalar on the right, every cell is compared to the scalar.
  - Line 2199, 2534:
    - RECOMMENDED: elaborate on string_expr (added lines 2381 +):
      - String expressions may be formed using concatenation operator +.
      - Array of String and associated operations.
      - Single quoted and unquoted string_expr (Line 1790)
  - Line 2235: RECOMMENDED: Floating point values shall have double precision (bnary 64-bit) as defined by IEEE Std 754-2008 or better.
  - Line 2333: RECOMMENDED: Enum scope resolution operator, differentiates EnumType::True from True
  - Line 2533: RECOMMENDED: as written 7.6.14 Array Operations (see doc)
  - Line 2561: RECOMMENDED: as written 7.6.17 Standard Global Variables (see doc)
  - Line 2420: RECOMMENDED: rewrite as per Line 684 item above Initialization takes place when ???? e.g., unnamed Variables block when encountered ? Is the Variables block with the standard variables an unnamed block. Can we have several unnamed Variables blocks (all variables end up in the same namespace) ? Named variables block variables are created when referenced (STIL.1: variables block is replicated, i.e., local copy when referenced).

Actions:
- Jim to rework Verigy example from STIL paper so that the STIL translation is consistent with its original Verigy code.

Reference documents (If logged into your google account, can edit. If not, can only view.)
- Current Draft Syntax Document
- Issues List
- Namespace resolution examples document
- Communications spread sheet (scratchpad spreadsheet)
- Communications word doc (scratchpad word document)

Next meeting: 08/24/11

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