1450.4 meeting minutes – 05/04/11

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

Agenda:

- IEEE Meeting Preamble (No discussion of proprietary information).
- Continue work on section 7.6 "Variables and Expressions".

Summary:

- Since we had a quorum (3+ participants) we were able turn red (proposed, but not discussed) and blue (proposed and discussed) text to black (accepted). Line numbers below are accurate for the Syntax Document dated May 3, 2011.
- Accepted:
    - recognizing single quoted and unquoted mathematical expressions where:
    - Glossary: added term Tester: synonym for ATE
        1. unquoted mathematical expressions are evaluated as encountered using variable definitions in effect at that point in time
        2. mathematical expressions in single quotes are stored as expressions whose evaluations are postponed until required using variable definitions in effect at that point in time, e.g., when employing a relational operator:

```
Seconds {
   prd = 10ns;
   strb = '0.9*prd';
}

if (10ns > strb) ... // Evaluation of '0.9*prd' takes place here
```

The above statements occur in different contexts of course.

The syntax document text will require extensive revision. Barring other other suggestions, I will do this in blue as having been sanctioned but still requiring peer review.

    - Glossary: added term Tester: synonym for ATE

    - Line 550 (black), prompted by paragraph at line 1667: The TestProgram block keyword Variables refers to a named top-level variables block. Variables in that block are global to the test program. The unnamed variables block shall be referred to implicitly and read before named blocks which are read in the order specified. If more than one variables block is specified, each variable name shall be unique across all variables blocks referenced.

    - Line 565 (mostly black), prompted by paragraph at line 1667: TestProgram refers to three variables blocks:
        1. The unnamed variables block, user-defined, referred to implicitly.
        2. StdFlowVars, a variables block that is defined by STIL.4 (see section 7.6.15), referred to explicitly.
        3. globals, user-defined, referred to explicitly.

      Variables in the unnamed variables block, StdFlowVars, and globals, shall share the same name space, i.e., if block StdFlowVars contains a definition for delay, the definition of delay in block globals is in error.

    - Line 1774 (black): A test whose TestExec consists of ATE native code may temporarily override start and/or stop locations as per VecLocation parameters. No STIL.4 syntax shall change PatternBurst data directly.

    - Lines 1628, 2049 Table 5 (black): accepted R as an alternative to Ohms

- Line 1630 (black): unless they've been defined as quoted identifiers in the context of other STIL extension blocks and used in a STIL.4 context that requires a type other than String.

- Line 1664 (black): accepted paragraph: The unnamed global Variables block is implicitly referenced by the TestProgram block hence, a variable in that block may be accessed simply by its name. A variable in a named global Variables block may be accessed by its name if the TestProgram block references that Variables block by name. It shall be illegal for a Testprogram to reference variable blocks with conflicting variable names.

- Line 1668 (black): accepted paragraph: A spec variable shall be accessed relative to its hierarchical location, e.g., spec.cat.var, assuming spec and cat are the names of a previously defined Spec and subordinate Category block containing variable var. STIL.0 usage of quoted variable names and period as a string concatenation operator may appear ambiguous, e.g., "`spec`"."`cat`"."`var`" may represent concatenated string "`speccatvar`" or a reference to a spec variable. STIL.4 shall recognize only operator + for string concatenation. STIL.4 shall have no explicit limits on string length. Except for Bin names, STIL.4 shall not permit the use of quoted names as identifiers in STIL.4 code.

- Line 2049 Table 5 (black): accepted units oC and oF, and added footnote: STIL.0 keyword Cel shall be deprecated. With the exception of STIL.3 which is not expected to be in the same input stream as STIL.0, STIL.2, and STIL.4, there are no applications for keyword Cel in other STIL extensions.

  PLEASE NOTIFY IF THE ABOVE FOOTNOTE IS IN ERROR

- Line 2049 Table 5 (black): accepted type Deg as a degree based angle or phase shift (not radians which may be added as another type-name should it prove necessary).

Actions:

- All WG Members: Please review the "eval" proposal and cast your vote (before next week's meeting) on whether or not to include it. If you're unsure or need additional clarification, please request it via email before next week's meeting. Also, if there are other functions that should be included, such as suggested above, make your suggestions to the WG.

Reference documents (If logged into your google account, can edit. If not, can only view.)

- http://spreadsheets.google.com/ccc?key=0AoKiPr1I9LY9dF95dkhSTVVqOU5GbWJyWFNhY0JPX0E&hl=en
- Namespace resolution examples document: http://docs.google.com/Doc?docid=0AYKiPr1I9LY9ZGY4dmNjNTNfMGZkOGJ2bmZy&hl=en
- Scratchpad spreadsheet: https://spreadsheets0.google.com/ccc?key=tQ93VDnAZ-Cl9RFKpPrPDzw&authkey=COzyro8K&hl=en&authkey=COzyro8K#gid=0
- Scratchpad "Word" doc: https://docs1.google.com/document/d/1zVu2M8nTJsrm0nFbBhiuM8-YRt4ErYqdy_uSa3x3_T4/edit?authkey=CLrgwrsG#

Next meeting: 05/11/11

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