

Committee Status 2/28/08

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P1800 Technical Chair

SV-AC

- Mantis items resolved or re-resolved since last status (27)
 - > 1601 Untyped arguments [returned from SV-EC unchanged and resolved]
 - > 1648 Default reset for assertions
 - > 1686 Assertion evaluation does not wait on subroutines
 - > 1687 Wrong equivalence with \$isunknown
 - > 1728 Let
 - > 1758 Boolean operators \rightarrow , \leftrightarrow
 - > 1786 Definition of "if-else" in Annex F seems broken
 - > 1806 Restrict assertion statement
 - > 1830 Add sequence methods to formal syntax
 - > 1833 Precise definition of immediate assertions
 - > 1852 Reference named sequence or property before declaration
 - > 1900 Checkers
 - > 1932 LTL operators
 - > 1982 Actual arguments unclear, \$ inconsistencies
 - > 1987 Assertion statement definition and glossary entry
 - > 2005 Deferred immediate assertions
 - > 2069 Formal semantics for coverage
 - > 2088 Covergroups in checkers
 - > 2089 Final blocks with immediate assertions in checkers

SV-AC (cont.)

- > 2091 Clarification on where concurrent assertions may appear
 - > 2100 Synchronous resets
 - > 2110 Checkers in procedural for loops
 - > 2150 Disallow automatic variables in subroutine calls and action blocks
 - > 2168 Formal semantics of edge-sensitive clocks
 - > 2173 Property case
 - > 2182 VPI diagrams for checkers
 - > 2250 VPI changes for LTL operators
- Mantis items waiting on other committees (10) – those in green had feedback
 - > [SV-CC] 1503 Revise VPI diagrams for assertions
 - > [SV-CC] 1599 API and VPI changes for 0805
 - > [SV-CC] 1757 `accept_on/reject_on`
 - > [SV-BC] 1769 Elaboration-time assertions
 - > [SV-CC] 1898 Explicit mappings from assertion system tasks to callbacks
 - > [SV-CC] 2005 Glitches with immediate assertions
 - > [SV-EC] 2088 Covergroups in checkers
 - > [SV-EC] 2089 Checkers with final blocks
 - > [SV-BC] 2089
 - > [SV-CC] 2182 VPI diagrams for checkers
 - > [SV-CC] 2250 VPI changes for LTL operators

SV-AC (cont.)

- The SV-AC extension will expire on 2008-02-28
- According to the schedule, SV-AC is behind on the following items
 - > M: 1551 Make disable iff sampled. Not being worked on.
 - > m: 1627 Expect statement not allowed in functions. Not being worked on.
 - > m: 1756 Change semantics of assertion control tasks in initial blocks. Due 2007-12-11. Not being worked on.
 - > m: 2172 Sequence "if-else". Due 2008-01-15. Not being worked on.
 - > d: 0966 Problems with argument passing and \$. Draft due 2008-01-22.
 - Some of these problems are resolved in 1549 and 1668. Otherwise, not being worked on.
 - > v: 1901 Restrict identifier in cycle delay to be constant. Due 2008-01-22
Expected to be resolved on 2008-02-28.
 - > m: 1769 Elaboration-time assertions, error reporting tasks. Due 2008-01-22
Expected to be resolved on 2008-02-28.
 - > v: 1987 Change "verification statement" to "assertion statement". Due 2008-01-29
Expected to be resolved on 2008-02-28.

SV-AC (cont.)

- Request for schedule extension
 - > John sent the following request to the WG (feb 12th)
 - > The SV-AC requests that the P1800 WG grant an extension until 2008-03-31 for the purpose of addressing feedback from Champions and to work with SV-CC on VPI/API changes for proposals that are resolved in SV-AC by the 2008-02-28 deadline.
- Chair
 - > John has informed us that he will not be able to continue as the chair of the sv-ac beyond February
 - > I have requested that the sv-ac elect a provisional chair, to be approved by the WG

SV-BC

- The committee is addressing the following issue groups
 - > Merge-related
 - Addressing as raised by reviewers and proposals received
 - > Identified by P1800 WG
 - Remaining JEITA Items
 - 1832: No proposal in the works. Unlikely to be resolved.
 - 1829: Waiting for more information from JEITA
 - Past Ballot Issues:
 - 676, 678, 697, 698 unlikely to be addressed.
 - 677 may be resolved when 2008 is resolved.
 - Other Feedback Issues
 - 1809: No proposal in the works. Unlikely to be resolved.
 - > Issues trending to resolution during March 3, 2008 meeting
 - 1526, 1709, 2008
 - Feedback for SV-AC issues 1769 and 2089
- Issues resolved during February
 - > 1340, 1564, 1711, 1772, 1826, 1827, 1828, 1846, 2043, 2097, 2106, 2163, 2221, 2249
- Request for permission to address additional Mantis items
 - > 2269 - sign/width casting

SV-CC

- Held a 2-day face-to-face meeting around DVCon
 - > Have reached an agreement in principle to the handle lifetime issue.
 - > Working on implementation now
- Have started to look at the SV-AC issues
- Many Data Read API items with proposals
 - > Not much interest in the committee to go over them
 - > Concern that the changes are too extensive
- Several items have proposals to be voted on (26)
 - > Looking for ways to expedite them
 - > 2218 Clarify meaning of `vpi_compare_objects()`
 - > 2216 Details missing from VPI Generates object diagram
 - > 2143 How should VPI handle index expressions with side effects?
 - > 2054 Draft 3A, Section 40 - Deprecate Data Read API
 - > 2094 Need to extend VPI to handle class specializations
 - > 1599 The assertion API and VPI sections need changes as per mantis #805
 - > 2262 Missing definition in `vpi_user.h` for `vpilsProtected`
 - > 1688 Performance of VPI access to memories and MDAs is inadequate

SV-CC (cont.)

- > 0555 31.1 Introduction not needed in context of the larger document
- > 0556 31.2 Beginning of this section not needed in larger context of spec
- > 0557 31.3.1 specific references to objects should be removed
- > 0558 31.3.3 rename section to "Access availability"
- > 0560 31.4.1 & 31.4.2.1 Overloading vpi_handle() is a bad idea
- > 0561 31.4.2 vpi_free_object() should be explicitly referenced here
- > 0562 31.5 needless restriction on traverse object creation - poor terminology
- > 0563 31.5 diagram in figure 31-18 needs to be redrawn
- > 0565 31.6 remove first paragraph of this section
- > 0570 31.8.1 Need prototype for vpi_load_extension()
- > 0571 31.8.1 unnecessary complication added for vpi_close()
- > 0572 31.8 make use of the term 'user'
- > 0580 31.8.4 section is not necessary and colloquial
- > 0583 31.8.4.2 terminology first defined in a footnote?
- > 0584 31.8.4.2 implies that vpi_goto() creates new handle
- > 0593 31.12 Routines should be in table format
- > 2146 Data read API description references wrong header file
- > 2148 Unclear statement about error handling after calling vpi_unload()

SV-EC

- Held one meeting on Feb 4th
 - > Took a break for President's Day and DVCon
- Resolved/Closed Mantis items since last status
 - > 3 Mantis items Resolved
 - 2183, 2229, 2233 – Passed unanimously
 - > Re-approved 1447 with changes – had feedback from Champions
 - > Conducted an email vote based on sv-ac request: 2088, 2089
 - Neither passed – the sv-ac has started addressing the feedback
 - Will be addressed in the next conference call (March 3rd)
- Request for permission to work on the following Mantis items
 - > 1897 – important item to fix (potential ballot issue) – coverage database related
 - > 2242 – get_coverage() and get_inst_coverage() - round-off clarifications
 - > 2243 – minor clarification for coverage db when per_instance option is not set
 - > No anticipated impact on other committees

SV-XC

- Committee has lost momentum due to lack of technical material
 - > There haven't been any meetings for the last 3 months
- A proposal from Mentor was expected
 - > John Shields was the person that was expected to provide a proposal
 - > John has since re-focused his time on the sv-ec activities
 - > A proposal is no longer expected
- Verilog-AMS
 - > This area is now being opened for discussion
 - > There is some interest to do something in this space (e.g. TI)

Champions

- Held conference calls on Feb 14th and Feb 25th
 - > Feb 25th was a continuation of Feb 14th
 - > A total of 38 Mantis items were on the agenda
- Feb 14th conference call – all champions were on-line
 - > 14 Mantis items were processed
 - > 13 were approved by the Champions
 - > 1 was only reviewed (not in Resolved state)
 - ▣ Mantis 1900 – 4y1n2a – straw poll
- Feb 25th conference call – 7 of the 8 champions were on-line
 - > xx were approved by the Champions
 - > x were sent back to the Technical Committees
- Email vote was held – ending on Feb 23rd
 - > 20 Mantis items being reviewed – part of the same 38 – 6 Champions voted
- Next meeting is scheduled for March 13th