

1450.4 Meeting Minutes - 05/08/08

Attendees: Doug Sprague, Ernie Wahl, Ajay Khoche, Bruce Parnas, Jim O'Reilly,

Not Attending: Kevin Coggins, Jose Santiago

- Preamble
 - Record Meeting (*2)
 - To Listen to recording of meeting:
 - Call the (US) dial-in numbers 1-877-421-0003 (toll free) or 1-770-615-1374 (toll)
 - Enter special playback passcode: 747464
 - Once in, enter *3
 - Enter file number for this specific meeting: 45706701
 - Enter 1 to listen to the conference call
- IEEE Meeting, no discussion of proprietary information
- Review previous open action items
 - Deferred to next week
- Continued review of latest Binning_5_8_2008.pdf document from Ernie
 - Section 3.1, pg 8, Fig 1 -- Discussed the set of proposed softbin attributes in red
 - Color, Number, Retest, Terse, Verbose, Wafermap_char
 - A fair amount of discussion around the "Number" attribute.
 - The idea is that if Number is not specified, then the default number would be the index value.
 - The Number attribute it thought to be required for mapping legacy test systems, languages, and production environment into the new dot 4 mold.
 - Recommendation will be to discourage the use of number and rely on default indexing, for cases where there is no requirements to map from legacy environments
 - For the Retest attribute, the idea here is to keep this simple for now as part of phase 1, but just get it in as an Unsigned type.
 - Terse, Verbose, & Wafermap_char are all just representations of the softbin for various contexts
 - Change Wafermap_char to WafermapChar to be consistent with using mixed case instead of underscores.
 - Ajay also brought up the point that where there may be other attributes that are required for a given test platform, then UserKeywords could be used to address this
 - Jim seems to think these attributes provide good coverage across all the ATE languages
 - Team agreed to these proposed changes, Ernie to turn them to black, and Jim to make updates to latest syntax document.
 - Section 3.1, pg 8, Fig 2 -- Discussed proposed new attributes for BinDefs block in red
 - Continue_on_fail & Color
 - Default color for Pass block is "green" and Fail block is "red"

- Change Continue_on_fail to be ContinueOnFail, consistent with other naming approaches
 - Are NullBin properties user settable? Need to add this issue to the new issue list which Jose is putting together.
 - Team agreed to these proposed changes, Ernie to turn them to black, and Jim to make updates to latest syntax document.
- Section 3.2.3, pg 11, Fig 6 -- Discussed proposed new bin_property attributes in red
 - Some discussion on bin_properties in fig6, vs softbin_properties in fig1
 - Some discussion on ContinueOnFail, not really needed on a per-bin basis, but more like for flow control switches
 - The idea is to have ContinueOnFail settable in the BinDefs block (fig2), but read-only down at the Bin Properties Access level (fig6)
 - Ernie will reorder the bin_property attributes to group them as modifiable (starts with lowercase) and non-modifiable (starts with uppercase).
 - Team agreed to these proposed changes, Ernie to turn them to black, and Jim to make updates to latest syntax document.
- Call ended here, will move onto reviewing latest EntryPoints document at the next meeting
- Next Meeting 05/15/08

Action Items:

- 02/28: Each sub-team lead to send task list for their team to Jose for inclusion in the project plan.
 - Ernie has sent %complete list
 - Doug has sent initial task lists for his two sub-teams to Jose
 - Jim to try to send his lists by the week of 4/10
- 02/28: Jose to merge current documents into new MS Word master document.
 - Still in progress, taking more time than initially thought
- 02/28: Jose to migrate reviewed issues into a new issues list, update based on previous discussion
 - Still in progress, has old list it from Jim, will try to send by Monday...
 - Moving to a spreadsheet which will be better
- 03/06: Ernie to move Standard Test Types documentation toward becoming an Annex in dot4 which would be a Proposal for Test Types
 - No master document yet to put this in as an Annex
- 03/06: Doug to address syntax of FuncExec (WG24b) and ensure consistency with STIL statement rules, as part of and integrating with other 1450 standards.
 - On Doug's task list, sent to Jose
- 03/06: Doug to address WG25 as part of Runtime Variables
 - On Doug's task list, sent to Jose

- 03/06: Doug to address new WG30 issue (Define before Use for Variables and BinDefs) as part of integration with other specs.
 - On Doug's task list, sent to Jose
- 03/06: Jose to add new WG30 issue to current issues list.
- 03/06: Jose to add a "Look Ahead" work item to the project plan timeline to ensure extensibility for phase 2 capabilities.
 - Jose attacking from both ends with project plan, will add this item at the end of the timeline for dot4.
 - This should be the last item in the project plan timeline, and we will get to it assuming time is available then
- 03/20: Doug to address array specification/indexing syntax as part of the Variables block issues to be resolved. Needs to account for the proper way to identify multiple tokens and how they are separated within the array bracket notation.
 - Added to Doug's Runtime Variables task list
 - Jim noted table 2, pg 57 of dot 0 indicates comma as a token separator for timing expressions, but that does not appear to be the case
 - Doug & Jim to get together on this item and bring something back to the group.
- 03/20: Jim to post previous binning work document to the dot4 website under quicklinks in docs for working group meetings. Shows other attributes which may be required for binmaps.
 - Ernie has the latest updates
 - Not on web yet, but Ernie has the latest...
 - Jim asked Ajay for Inovus manual for test flow and binning
 - Ajay, to send examples to Jim today
- 03/27: Doug to address adding new types: Unsigned, Char
 - Doug to get this into my task list
- 03/27: Ernie to put together alternative BinAndStop syntax/examples for discussion in subsequent meeting
 - Ernie has this done and will send out for review next week
 - Sent on 4/24
 - Need to review this in future meeting
- 04/03: Ajay to look into getting Inovus manual for test flow and binning
 - Sent examples to Jim on 5/1
- 04/03: Jim to update syntax summary document and send to Jose for inclusion into the master document
- 04/03: Doug to address in Variables, what happens when assigning integers to booleans, and in general, conversions
- 05/08: Ernie to make latest updates to Binning document as discussed in the 5/8 meeting (fig1, 2, & 6)
- 05/08: Jim to make updates to current master syntax document as discussed in the 5/8 meeting
- 05/08: Jose to add issues to new issues spreadsheet to address if NullBin properties are user settable

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>

----- Latest Prioritized High Level Dot4 Todolist -----

NOTE: First person in list is sub-team lead

Phase 1 (Must Have for ballot!!)

- 1 Process (Jose, Doug, Jim)
- 2 Documentation (Jose, Doug, Jim)
- 3 Integration with Other 1450 Specs (Doug, Jim, Bruce)
- 4 Binning (Ernie, Doug)
- 5 Runtime Variables (Doug, Ernie)
- 6 PatternExec constructs (Jim, Ajay)
 - Don't force to a 1-1 relationship with test methods
- 7 TestBase (Jim, Jose, Bruce)
- 8 Standard Predefined Test Types (Ernie, Ajay)
 - Production Test Methods only for now
 - Need a basic functional test at a minimum
 - Tag to mark this as a functional test

Phase 2 (Can work around, but may pull some stuff into phase 1 if we have time)

9 MultiSite (??)

Issues...

- Have similar concept we have in
- How many different sites? Also, iteration and access to them
- Synchronization between sites for shared resources
 - parallel vs serial
- Allow for different flows per site?
- Need to Suspend, Disable, Enable sites
- Need to specify what program runs on what sites (assumes different dies being tested)
- Does this even belong in Test Flow??

10 Datalogging Interface? (Ajay)

11 Bypass (in PreActions) syntax and semantics (Jim)

- Package only, Wafer only issues

12 Interfacing to Shmoo Plotting (??)

- May want to do this as a high level construct that you associate with an instance of a test

13 Input/Output Interface? (Ernie??)

14 Writing/Reading to/from screen, files (??)