1450.4 Meeting Minutes - 05/29/08

Attendees:
Ernie Wahl, Jim O'Reilly, Bruce Parnas, Doug Sprague, Ajay Khoche,
Not Attending:
Kevin Coggins, Jose Santiago ,

- Preamble
  o Record Meeting (*2)
  o 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: 32418401
    ▪ Enter 1 to listen to the conference call
    IEEE Meeting, no discussion of proprietary information
- Reviewed previous open action items, updates within action items below
- Continued review of latest EntryPoints document (Doug sent on 5/22)
  o Started discussion with On Retest
    ▪ Agreed to move On Retest to phase 2 items, not needed for phase 1
  o Next, On Load
    ▪ Agreed to put this in for phase 1
    ▪ May be pieces of this that fall into phase 2
    ▪ Will allow a hook for preloading vectors through the execute_stmt
    ▪ Some higher level controlling software will issue this event just after the test program has been loaded
    ▪ Need to put a sequence diagram in place to show execution sequence of these events
  o Next, On LotStart/LotEnd
    ▪ Agreed these are needed for phase 1
    ▪ Need to specify where in the sequence these occur
  o Next, On MultiSiteDisable/MultiSiteEnable
    ▪ Agreed to move these to phase 2
  o Next, On PatternLoad
    ▪ This should not be needed since we have OnLoad and it triggers after the test program is loaded.

- On systems with memory limitations, wanting to write errors to the screen then we may want such a construct, but this would be more I/O which is in phase 2.
- Agreed to push this to phase 2 and determine there if this is actually needed
  - Next, On PowerDown/PowerUp
    - Some overlap with dot2
    - Power up/down dot2 sequencing gets tagged at the PatternExec level
    - This comes from within the test program and not from higher level controlling s/w, so should not be needed in phase 1
    - Agreed to move to phase 2
  - Next, On Reset
    - Jim noted that two languages he is aware of that allow the user to issue some Reset event
    - Ajay to investigate this to determine how it is used in his environment and come back to team. This will help us determine if this will be needed in phase 1 or moved to phase 2.
  - Next, On Start
    - Needed for phase 1
    - WG agreed we don't need an "On End" event defined since the completion of an "On Start" event is by definition, the end of the test.
    - Will remove On End event
  - Next, On Unload
    - Not aware of any testers doing this
    - WG agreed to move to phase 2
  - Next, On Validation
    - WG agreed to move to phase 2 or use a UserKeyword since this would be tester specific
  - Next, On WaferEnd/WaferStart
    - WG agreed this needs to be phase 1
  - Lastly, On UserKeyword
    - WG agreed this is a phase 1 items
- Reviewed latest syntax doc -- D21 (Jim posted on web)
  - Jim reviewed the D21 changes agreed to in previous meeting with WG
  - Changes in 5/23 revision block at the top of the documentation

- Meeting was adjourned
- Next Meeting 06/05/2008

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
  - 5/22: Reminded group to submit any updates to Jose. Jose has a partial project plan in place.
- 02/28: Jose to merge current documents into new MS Word master document.
  - Still in progress, taking more time than initially thought
  - 5/22: Jose working on this next
- 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
  - 5/22: Jose has something to share with the WG for the 5/29 call.
- 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.
- 5/22: Doug to coordinate to meet with Jim on this before next week
- 5/28: Doug/Jim still trying to get together on this
- 03/27: Doug to address adding new types: Unsigned, Char
  - Doug to get this into my task list
    - 5/22: Doug to be sure this got added to the his task list for Runtime Variables
    - 5/29: Doug sent to Jose to be added to the 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
  - 5/22: Plan to review this at next meeting on 5/29.
  - 5/29: Did not get to this, need to do at next meeting
- 04/03: Ajay to look into getting Inovus manual for test flow and binning
  - Sent examples to Jim on 5/1
  - 5/22: Jim still needs ref manual from Daniel Fan & Ajay
  - 5/29: Jim still awaiting specs from Daniel and Ajay
- 04/03: Doug to address in Variables, what happens when assigning integers to booleans, and in general, conversions
  - 5/22: Doug to make sure this is on his Runtime Variables task list
  - 5/29: Doug sent to Jose to be added to his task list
- 05/08: Jose to add issues to new issues spreadsheet to address if NoBin properties are user settable
- 05/15: Jim to research what other languages do related to ContinueOnFail and bring proposal back to the WG on how to address this best
  - 5/29: Jim awaiting specs from Daniel and Ajay.
- 05/29: Doug to put a sequence diagram in place for the EntryPoint events to show sequence of events
- 05/29: Ajay to investigate how other systems use the concept of a Reset event. Bring back to team to help determine whether On Reset EntryPoint is needed for phase 1 or should be moved out to phase 2

----------- 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 similiar concept we have in
 - How many different sites? Also, iteration and access to them
 - Syncronization 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 (??)