IEEE 1149.1- 2011 Boundary Scan Working Group Minutes

Date – 07/19/2011

Attendees: CJ Clark, Bill Tuthill, Craig Stephan, Adam Ley, Dave Dubberke, Brian Turmelle, Heiko Ehrenberg, Josh Ferry, Carl Barnhart, Ken Parker, Adam Cron, John Seibold, Wim Driessen, John Braden, Bill Eklow, Ted Eaton, Roland Latvala,

Missing with pre-excuse Carol Pyron,

Missing: Lee Whetsel, Neil Jacobson, Mike Richetti, Ted Cleggett, Matthias Kamm Peter Elias, Francisco Russi,

Agenda:

1) *11:00* Patent Slides and Rules of Etiquette
2) 11:05
3) <Value Assignments> Action Item – Carl to select new keywords other than IWRITE/IREAD
4) Use statement.   We have standard and use, is there room for <register use statement>?
5) Register_association. – originally for register_fields, need to manage SERDES array
6) Homework assignments

Meeting Called to order at 11:00 am EST
Minutes:

Review Patent Slide – Reminder sent out over email during the last week.
Review of Working Group Meeting Guidelines

John Seibold from TI joined the group and was introduced. Has offered to provide examples for the draft (after proper scrubbing)

Value Assignment.
Review of Action Item for Carl to select new keywords other than iwrite/iread
    NOPI, NOPO,NOUPD
    PORRESET,TRSTRESET,TAPRESET,CHRESET,CAPTURES,DEFAULT,SAFE
These key words have been picked as new keywords. Email sent out to reflector to describe these.
Ken: TAPRESET and CHRESET – are they mutually exclusive?
Carl: all resets are mutually exclusive for a given field.
Ken: CHRESET would imply PORRESET
Carl: and TRSTRESET and TAPRESET
Carl: will update descriptions in draft to better reflect this
CJ: idea of not being able to override reset in BSDL needs some tweaking

Use Statement
Is there room to add use statement that is closer to action?
Do we need a "register use statement"?
        Brings in a use statement that is closer to
Adam C: parsing- is it possible that someone could accidentally use something before hitting use statement if it isn't at the top of the file.
CJ : use statement for cells is prior to boundary register.
CJ: for the register use statement it would be before register fields and mnemonics.
Adam C: Concerned that there is potential someone will stick some use statements too late in the BSDL.
CJ: would have compilation errors if these were in the wrong locations
KPP: should we have the concept of a lexical include statement. Would that concept be a better fit rather than "use" concept
CJ; this is what the use does
Carl: no conditional, but yes
Ted: doesn't know why we are bothering with this.
CJ: use statement before was for Cells or new attributes defined. Now Use statement includes package files that relate only to register fields, register_assembly, and register_mnemonics.   Always need that package field with the group. In 2 separate locations makes it more of a hassle.
Carl: if we are going to open up the order, Carl's preference would be to leave the use statement where it is an move the new register attributes up to current use statement
KPP: sees merit to this. Is there a chance you would want to use something from the Boundary Register that wasn't defined at that point.
Carl: register description would not be dependent on Boundary register
CJ: had just sent out a description to Ken that would show this dependency.
Carl: Why can't you do it?
CJ: Person building this doesn't need to look at Boundary register?
Carl: maybe want to look at it but the parser could handle it.
CJ: perhaps too early in the process. Would rather leave it as is than move the register statements to the top of the file
Adam C: are you looking for use statements -> register statements, use statements -> register statement, etc
CJ: no.. Looking to group the use statements before the register statements.
Discussion is tabled.

Register Associations
Idea behind Register Associations is taking a register that is used for some type of function and it is connected to pins. Allows some type of failure messages to come out and show pins that associated with a particular register
CJ: There are a lot of parenthesizes "()" Any suggestions
Carl: put square brackets
Ken: Put in a colon after register name and remove parenthesis. Make it look more like dot 6
Adam L: there are some problems with the syntax.

CJ will send the example text to Adam and Adam will fix the text and send it back to the group

Ted: do we put all pins associated with the register?
Carl: only the ones you care about.
Ted: Array's make it more difficult
CJ: discussion not on the Array's but how to structure the statement

KPP: entertained the notion of changing the name to Register Pin Association. Closer to what it is
CJ: we are actually associating PORTS.
KPP: ok use Register_Port_Association.
CJ and Carl agrees to the name change
CJ will update the parse to take the new format

Ted: how do I tell which bit of an array is being addressed
CJ: asks ted to create an example to show the problem that Ted sees and then we can look at it as a group and examine it

HomeWork
        Heiko is still working on examples.
        John S's examples are added to the homework assignments.

Homework assignments.
        Heiko and Carol's assignments are outstanding and will be done for next week's meeting
        Bill E – work on more concrete example and definition of the ESSID register

- **Meeting adjourned: 11:54** EST.

Next Meeting: 7/26/2011 11:00 AM EST

0 Motions Made

NOTES:

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1149.1 working group website - http://grouper.ieee.org/groups/1149/1/

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ppppp11491p*pp03820#

JOIN the meeting as GUEST – will have to ask to present

 Meeting time: Tuesdays 11:00 AM (EST)   (Recurring)

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