IEEE 1149.10 High Speed JTAG Working Group Minutes

Date – 9/08/2014
Attendees: CJ Clark, Adam Ley, Bill Tuthill, Bob Gottlieb, Brian Turmelle, Craig Stephan, Dharma Konda, Frans de Jong,Ismed Hartanto, Jon Colburn, Josh Ferry, Steve Sunter, Tapan J Chakraborty,
Absent with Excuse :
Not Present for ¾ of meeting:

Missing: Bill Huott, Carol Pyron, Jim Wilson, Kent Ng, Kevin Gorman, Tom Wayers, Heiko Ehrenburg, Dave Armstrong, Roger Sowada, Dwayne Burek, Zahi Abuhanmdeh, Mike Ricchetti, Saman Adham, Gurgen Harutyunyan,
Teresa McLaurin, Philippe Lebourg,
Gobinathan Athimolom, Marc Hutner,

Agenda:

1) Patent Slide
2) Feedback/Discussion of V35 of the draft
   a. What needs to be corrected?
3) New Business
4) Adjourn

Meeting Called to order at 11:12 am EDT

Minutes:
Review Patent Slide – Slide Presented to the Group.
    Solicited input from anybody who is aware of patents that might read on our standard.
    No Response
    (*Slides were not available to be shown but no objections noted about lack of slides)

Feedback on V35 of the draft

Frans – 6.11 Example ScanR packet Figure 6.24 and Figure 6.25
    XXXX in figure 6.24 is ok. Transmit xxxxx "Don't Care" is ok
    The Response in Figure 6.25 should not be a "Don't Care" (XX) should be using a "U" there because it is Known.
Steve – the values are known.
Frans – yes if you simulate something would come out.
Stave – we don't care what the values are but they will be known
Frans- if you send in X's which will be translated to a 1 or 0 you will get something back. It's not a don't care that comes back.. it is an unknown value.
Steve – could be known or unknown, but whatever it is we don't care.

CJ – the three extra positions there are coming from the PEDA. It could be known. There could be a forced value put there or it could be a random number. Could add some clarity, and say that you will receive a value but we don't care what the value is here.
Frans – ok as long as we note that there is a difference between transmit and response.
Frans – 6.10.2 rule c – Not conclusive. You could just copy the value and not what we meant. The count value shall be equivalent to the count value received and not just copied.
CJ – Not sure what the difference is.
Frans – not sure if someone could just copy the count value to the output register. Not the intent of the mechanism?
CJ – not seeing a problem copying the count value. What is the downside?
Bob – you would have to copy it.
Frans- what is the failure if your bits are not count?
Bob – response you have to copy the bits you are going to send. Can't count first
Frans – ok.. misinterpreting the line.
CJ – you do want to have a counter running that counts the bits coming in. but this is a response to "do you hear me"
Frans – this is acknowledgement at the start.
Frans - Figure 6.11. Example for channel 3 "UVXYZ" there is no definition of what U is
CJ – could be seen as "Unknown".
Frans – yes. Looking for maximum clarity.
CJ – ok. Make note to remove "U".
Frans – figure 6.21   use of numericals in examples might be confusing.
Frans – Figure 7-3 SPI BUS looks good.

CJ – Table 7-2
  Added some clarity .
  Added some more text.
  Under latency – updated text after discussions.
  Enabled – Optional. Needed for serial communications.
Figure 7-1 - example for latency.
  Latency is a way to tell tester that there is some time period between when the UUT receives data and when the data comes back.
Fixes for Syntax in 7.2.2
  Grouping in language in ATTRIBUTE HSTAP need to be better.
  Added WORD_SIZE into enable_list
Added Rule k – need to send alignment character after so much data in order to allow multiple channels to synchronize.
  Allows the receiver to keep the data in sync.
  Says if you have more than one Phy_string than you will need an alignment character. (ALIGN_CHAR)
  Need to get more basics to allow a change from 1 channel to 4 channels.

Scan_Channel_Assoctiation attribute example

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Removed alignment marker attribute in lieu of the alignment character
CONFIGR Packet
  Multiple packets that have uneven number of bytes
  May want to pad some packets to get even number of bytes.

Scan_channel_association attribute
  Allows tool to translate PDL in appropriate p1149.10 packets.
  Tool will know how to create packet to do Scan and ScanR from specific Channel

Send New Business request to reflector

Please use reflector to review what is in the Draft.
Please send comments to reflector.
  Anything that needs to be updated or you would like discussed

Motion to Adjourn: Frans
Seconded: Bill
Meeting adjourned: 12:01 pm EDT

Next Meeting:
Sept 15th, 2014 11:00am

Motion Summary

  0 motions made

Action Items
~~Bill Tuthill – 10-21-2013 -Add minutes and Attendance spreadsheet to the website.~~
~~CJ   11-11-2013 Reach out to ATE industry and Probe Industry to get update on future of ATE equipment to see which data speeds and protocols they are heading towards.~~
Philippe – Look into alternative method to create control information (pause, start, terminate, etc.) rather than using K characters in packet.
Bob – create a case study to show use of Attributes
Frans – will start some block diagrams of a simple use case to help illustrate the current architecture
~~Dwayne – present to the group his ideas for a simplified scheme – Direct Interface.~~

NOTES:

1149.10 working group website - http://grouper.ieee.org/groups/1149/10/

Here is the WebEx conference link.

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