

IEEE 1149.10 High Speed JTAG Working Group Minutes

Date – 10/05/2015

Attendees: CJ Clark, Bill Tuthill, Brian Turmelle, Dharma Konda, Gobinathan Athimolom, Josh Ferry,

Absent with Excuse: Adam Ley, Bob Gottlieb, Craig Stephan, Dwayne Burek, Jon Colburn,

Missing: Bill Huott, Carol Pyron, Jim Wilson, Kent Ng, Kevin Gorman, Tom Wayers, Heiko Ehrenburg, Dave Armstrong, Roger Sowada, Zahi Abuhanmdeh, Saman Adham, Teresa McLaurin, Philippe Lebourg, Steve Sunter, Gurgun Harutyunyan, Frans de Jong, John Braden, Marc Hutner, Ismed Hartanto, Mike Ricchetti, Tapan J Chakraborty,

Agenda:

- 1) Patent Slides
- 2) Comment received on TXCLOCK_1149_10. Should there be a RXCLOCK_1149_10 and REFCLOCK_1149_10?
- 3) Josh's PDL commands for making packets
- 4) New Business
- 5) Adjourn

Meeting Called to order at 11:05 am EST

Minutes:

Review Patent Slide – Slides Presented to the Group.

Solicited input from anybody who is aware of patents that might read on our standard.

No other responses noted.

Many members were at ITC (traveling) and not able to attend.

Josh's PDL commands.

Josh worked on syntax for 5 PDL commands.

iConfig, iTarget, iReset10, iRaw

iConfig – to tell a tool to initialize an unconfigured 01149.10 circuit

Parameters

-noFail to not have fail flag set if response packet was not correct.

Target ID must be 16 bit value greater than 0

iTarget – to select the appropriate device to receive and respond to subsequent packets.

Must be after iconfigure command

Parameters

targetID must be 16 bits value greater than 0 and equal to previous iConfig target ID

-nofail can be used

iReset10 – asserts/de-asserts various reset types of the 01149.10 PEDDA

Parameters

-nofail

RESET10_val is dynamic value that will be de-asserted after the duration set by the designer -Reset10_on / -Reset10_off(-Reset10_off will immediate clear the value)

TRST10_val is a static value and must be set to -TRST10_OFF in order to clear the state

TargetReset_val is a dynamic value that will be de-asserted after a duration set by the designer. Setting the value to -TargetRst_off will immediately clear value

If TargetREset_val is set to -TargetRST_on all circuits must be re-configured through iConfig commands before performing any further functions.

iRaw – command sets the PEDDA into loopback mode.

Parameters

-noFail

Count - shall be a 32 bit number. If count is 000 the PEDDA will be placed into an infinite feedback mode. The user must execute the Disable_Rawmode function to disable this mode.

iBond – command is used to enter a multi-lane channel bonded mode

Parameters

-noFail

Lane - shall indicate an even number of HSTAP lanes that will participate in channel bonding

Josh will email out his presentation to the reflector. Please direct any comments concerning the commands back to the reflector for discussion.

Feedback

CJ – some discussion on iReset10 needs to be done.

CJ – some of the language has to be changed for the rules to included shalls, musts, etc.

Call for New Business

No New Business

Meeting adjourned: 12:00pm EST

Next Meeting:

October 12th, 2015 11:00am

Motion Summary

0 motion 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.
Adam—invite someone from IEEE to speak on IEEE benefits of standardization at WG meeting~~

Call for Essential Patent notes

Adam Ley 12/1/2014

PN, TTL, AN

7348796, METHOD AND SYSTEM FOR NETWORK-ON-CHIP AND OTHER INTEGRATED CIRCUIT ARCHITECTURES, DAFCA INC.

Steve Sunter 11/17/2014

1. US 7610532 "Serializer/de-serializer bus controller interface" Avago, granted 2009
2. US 7739567 "Utilizing serializer-deserializer transmit and receive pads for parallel scan test data" Avago, granted 2010
3. US 8543876 "Method and apparatus for serial scan test data delivery" Altera, granted 2014

NOTES:

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

Here is the WebEx conference link.

<https://meetings.webex.com/collabs/meetings/join?uuid=MAG12PB7HN5W24AM2EOKIOM9KS-KERT>

You can use VOIP on your computer or dial-in using the phone number below.

Audio Connection

+1-415-655-0001

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