IEEE 1149.1- 2012 JTAG Working Group Minutes


## Date – 2/28/2012

**Attendees(21)**: Adam Cron, Adam Ley, Brian Turmelle, Carl Barnhart, CJ Clark, Craig Stephan, Dave Dubberke, Dharma Konda, Francisco Russi, Heiko Ehrenberg, Hugh Wallace, Jeff Halnon, John Braden, Josh Ferry, Ken Parker, Kent Ng, Peter Elias, Roger Sowada, Sankaran Menon, Ted Eaton, Wim Driessen


## Agenda:
1) Patent Slides and Rules of Etiquette
2) Use LiveMeeting "Raised Hand" to be recognized and take the floor
3) Homework Review

- The last of the PLD-0 commands: C.3.9 (Optimization) and C.3.10 (Misc.)
- The introductory description of PDL: sections C.1 and C.2
- The language basics: sections C.3.1 and C.3.2

4) Editor's motion for draft


## Meeting Called to order at 10:30am EST
## Minutes:

1) No new patents were identified to the WG.
3)

Carl) Review of C.3.9 iMerge.

Wim) Comment on iMerge with 2 iCalls, the iApply's will have to be synchronized.

CJ) Wim is asking for a –sync. On the iApply you can have labels and do this in a less formal way. Alternatively they could be synced by hand in advance if the hardware is that integrated.

Wim) Concerned with multi-drop buses and merging iProcs.

Carl) You're looking a system level test issue that may be beyond this test standard. iMerge is a recommendation not a requirement.

Adam C) Do we need iMerge in 1149.1? P1687 spent 2 years on this and it seems to be a rat hole for the standard.

CJ) We already have what we need for iMerge in 1149.1.

Hugh) iMerge assumes there is no connection between the different registers and is for optimization only.


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Carl) Consider adding a "-sync" to iApply. Asked if there is any objection to it.
Objections noted by: Hugh, Jeff, Adam C.  – primarily due to complexity

CJ) We're discussing a new capability so lets focus back on reviewing the draft as is.
"isync" proposal needs to be formalized in power point.

Ted) Understands the needs for a sync operation, as he's written PDL that has 10,000
iApply so re-writing that at the top level would be quite difficult. But there are different
types of synchronization that need clarification.

Ted) 3.9.1b asked for clarification on the limits of iMerge. iNote, iTake or iRelease?

Carl) The iEndState phrase is going away in a future edit.

CJ) The iCall allows the tool to make branches to execute the procedures concurrently.
It's to simplify the merging of procedures.

Carl) Are there any objections to relaxing the restrictions on c&d?
No objections noted.

Carl) Review of C.3.10.1 iNote

Carl) Review of C.3.10.2 iScan. iScan has been updated to reflect the changes in P1687
iScan. An iApply is required after an iScan.

Carl) Review moved to C.3.10.3 iSetFail.

Ken) Requested a failure severity level option.

Hugh) Agrees a severity level should be added, such as turn power off now.

CJ) These are common cleanup routines that testers can perform upon exit of the PDL or
application engine.

Carl) iSetFail is currently just differentiating between allowing the test to continue, or it
can stop (quit).

CJ) Open to new proposals for additional arguments to iSetFail but need to table for now.


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Carl) Motion 1 - To adopt C.3.9 and C.3.10 subject to future revisions
Second – Brian

Motion Passed : 9Y, 5N, 3A

Carl) Motion 2 – To adopt C.3.1, C.3.2 subject to future revisions
Second – Brian

Motion Passed: 10Y, 3N, 5A

| Attendee | Motion 1 | Motion 2 |
|---|---|---|
| Adam Cron | | |
| Adam Ley | N | N |
| Brian Turmelle | Y | Y |
| Carl Barnhart | Y | Y |
| Craig Stephan | Y | Y |
| Dave Dubberke | A | A |
| Dharma Konda | Y | Y |
| Francisco J Russi | N | N |
| Heiko Ehrenberg | Y | Y |
| Hugh Wallace | N | A |
| Jeff Halnon | A | Y |
| John Braden | Y | Y |
| Josh Ferry | Y | Y |
| Ken Parker | N | A |
| Kent Ng | | |
| Peter Elias | A | A |
| Roger Sowada | Y | Y |
| Sankaran Menon | | Y |
| Ted Eaton | N | N |
| Wim Driessen | Y | A |
| | | |
| Y | 9 | 10 |
| N | 5 | 3 |
| A | 3 | 5 |

Empty entries were no longer present or non-responsive at the time of the vote.


**New topics:**
Wim – tentative proposal for "sync"
Ken/Hugh – tentative proposal for iSetFail argument for severity level


**Meeting adjourned:**      **11:50am** EST.

**Next meeting:**      **3/6/2012 11:50am** EST.


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NOTES:

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


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