IEEE 1149.4 Mixed-Signal Test Bus Working Group Meeting Minutes

for

January 29th, 2008
8:00 – 9:15 AM PST

Meeting Agenda:

Time	Topic	Responsibility
8:00 – 9:15 AM	1. Review meeting minutes for Oct. 25th 2007.	All

	2. Update on BSDL parser development
	    - MST_TBIC syntax
	    - MST_ABM syntax
		Heiko and Ken

	3. Review draft version 2.6	All
	4. Other issues.	All
9:15 AM	Meeting adjourned	Bambang

Meeting Attendees:

Name	Company
Adam Ley	Asset-Intertech
Zafar Quadri	Solectron Corp.
Heiko Ehrenberg	Goepel Electronics LLC
Adam Cron	Synopsys
Sudhir Wokhlu	TI
Toby Byrd	TI
Bambang Suparjo	Mentor Graphics

1. Review meeting minutes October 25th, 2007.

The meeting minutes for October 25th 2007 have been approved, suggested by Adam Cron and seconded by Heiko.

2. Update on BSDL parser development

a. MST_TBIC syntax

This issue was raised by Heiko on Jan. 9th, during ABSDL parser implementation - "Is the <MST TBIC list> restricted to one or two entries or is it a real list, which could contain more than two entries?".

The group agreed with the suggestion proposed by Ken (through email) where there are only 2 entries for MST TBIC list. One is referring to the positive polarity and the other to the negative. The syntax has been updated as shown below:

```
<MST TBIC list> ::= <MST positive TBIC item> [ , <MST negative TBIC item> ]
<MST positive TBIC item> ::= <MST TBIC item>
<MST negative TBIC item>::= <MST TBIC item>
```

Based on the above changes, 2 new rules have been added in 10.4.4.3:

- The <MST positive TBIC item> shall refer to either the only 2 ports of the ATAP or to the positive legs of a differential ATAP as defined in 6.4.
- The <MST negative TBIC item> shall refer to the negative legs of a differential ATAP, if implemented, as defined in 6.4.

b.   MST_ABM syntax

The issue was also raised by Heiko in his email dated Jan. 22nd, where the current syntax in MST_ABM may create difficulty to parse a vector-type port name. Example:

```
W (  BASE : ....
W(3) (BASE :  ....
```

Ken provided an opinion through email dated Jan, 22nd:

The parser should be able to differentiate these two by virtue of the first non-blank character encountered after the first left parenthesis:
- if it is an integer, then the expression is a subscript
- if it is alpha, then it is a <MST test bus partition identifier>

Adam Cron has also provided a suggestion by inserting ":" after the port name:

```
"W : (  BASE ...
"W(3) : ( BASE ...
```

Heiko will check again with his group on this issue.

3.   Review Draft 2.6.

a.   There is no change during the meeting other than the 2.a. above.
b.   Adam Cron will send the list of changes to be made in the standard documentation and will communicate with the IEEE standard editor.

4.   Other issues

a.   Sudhir and Toby provided their experiences in implementing the standard in one of the TI products (at board level). Currently they are using STA400 chips to perform the test. They need some clarification on electrical properties related to

the standard implementation. The group identified that Steve Sunter is the best person to help them. Bambang will introduce them to Steve.

b.   The next meeting will be on February 26th, at 8 AM PST.

5.   The meeting adjourned at 9:15 AM.