

March 26,2010

Minutes of today's IEEE 1149.1 - Initialize Sub-Group Meeting

Attendees:

John Braden  
Ken Parker  
CJ Clark  
Dave Dubberke  
Ted Eaton  
Adam Ley  
Carol Pyron  
Bill Tuthill  
Francisco Russi  
Sivakumor V  
Roland Latvala

Minutes:

We continued reviewing Carol's realistic BSDL example:

- Carol still has concerns about the Port associations within the REGISTER\_FIELDS. Difficult to validate, and similar information to be published in Hardware manuals and App Notes.
- Much discussion about whether all TDR bits must be written or if X's are allowed and whether tool vendors should flag a Warning or Error if all bits are not defined or programmed in PDL file. Also whether 0's should be default value for unknown bits when only partial TDR register is programmed.
- Carol contended that even if all 0's is the default, that no 'Safe Values' should be inferred from this default programming.
- Discussion within the P1687 group if it is ok for 1149.1 to use the basic PDL commands. They do not want to compete with 1149.1. Suggested that 1149.1 reference the 1687 documentation to avoid any conflicts or duplications if 1149.1 is released before 1687.
- It was agreed that in the REGISTER\_FIELDS attribute section that bit 'swizzling' was allowed and that the same order of the bits left to right would be maintained in the REGISTER\_MNEMONICS attribute section.
- Discussions of the usage of the TDR registers lead to two motions voted upon today. Basically whether or not the REGISTER\_FIELDS attribute was required to list all bits of the TDR, and whether or not the REGISTER\_FIELDS attribute itself was to be mandatory or optional field.
- Results of the Voting on these 2 motions:
  - Motion 1: Passed 10/0 with 1 abstain. Allowing any or all bits of the TDR to be specified in the REGISTER\_FIELDS attribute section. (Not requiring all bits to be specified)
  - Motion 2: Failed 6/5 This motion tried to make the REGISTER\_FIELDS attribute mandatory if INIT\_SETUP instruction was used and an INIT\_DATA TDR defined. (By failing this motion, the REGISTER\_FIELDS attribute will become optional. (Example: for small TDR registers the REGISTER\_FIELDS attribute section should not be required.)

Current Status:

Rules - informally done  
BSDL Constructs - informally agreed upon, some details still open  
PDL - informally agreed upon as default side file format

Work still to be done:

Formalize Rules  
Formailize BSDL constructs  
Formailze PDL constructs  
Incorporate into 1149.1 Std

Actions:

1. Carol to redistribute her BSDL example
2. All are invited to edit the top of the BSDL to bring it into conformance with the new 1149.1 ideas for linkage (power, etc.)
3. Adam Ley has provided a HSDL example the group can study for next week

Next meeting date:

Same time next Friday April 2nd.