

April 30, 2010

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

Attendees:

Carl Barnhart
Dave Dubberke
Ted Eaton
Bill Tuthill
Roland Latvala
Heiko Ehrenberg
CJ Clark
Carol Pyron
Ken Parker
Francisco Russi

Minutes:

Today Carl reviewed his 'strawman' first pass at formalized main body tests and rules for the Init_Setup and Init_Run instructions. Several rules were suggested to be moved into either descriptive section or become recommendations. The topic of the init-status register came up and it was discussed that most of its formal rules were probably not required after all, so some will be deleted or moved to descriptive text. Carl will finish his draft and distribute to the team members for their review.

CJ reviewed a PDL file and discussed formalizing a structure for the Init side file. The expectation is that Init side file will support PDL Level-0 requirements. CJ introduced the procedure construct which we need to consider using. Level 1 PDL allows passing in a data string of parameters into a procedure. This feature is available but likely not needed for Init. We discussed having two procedure sections: proc init_setup and proc init_run. Carol mentioned that the PDL files was intended to be a data file, not a software program or process. Ted raised the point that we don't want to limit polling by something like an iRunLoop statement with a fixed # TCK or time coded into the PDL. Ted was asked to make another PDL example with his ideas represented.

Additional discussion about PDL configuration management, multiple PDL files, or adding unique procedures in a common PDL file. Eg: proc init_setup, proc init_setup_dc, init_setup_device_instance#1, #2, and so on. This was thought to become an implementation issue, not necessarily an issue for this Standard. Lastly discussion whether or not chip manufacturers would provide a sample PDL, or a commented version which board test engineers could use as template of choices they could then build custom PDL files from for a given board design.

Current Status:

Formalize Rules - in progress
BSDL Constructs - informally agreed upon, some details still open
Formalize PDL constructs - in progress

Work still to be done:

Formalize BSDL constructs
Incorporate into 1149.1 Std

Actions:

1. Ken will start BSDL formalization once the rules firm up.
2. Carl will distribute formal rules for review by the team.
3. Ted was asked to prepare a 2nd PDL example of his ideas.

Next meeting date:

Same time next Friday May 7th, unless modified by further notes.