



ORACLE®



Technical Committee Status 07/14/11

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SV-AC

- The following mantis items have been resolved
 - 1646 Generate constructs within properties and sequences
 - 2412 Allow clock inference in sequences
 - 3069 Relax rules for \$global_clock resolution
 - 3385 Possible ambiguity when deferred assertion action block calls nested function
- The following have been sent back from the Champions
 - 2476 Need clarification about system functions \$onehot, etc.
- Placed into the feedback state – addressing Shalom’s feedback
 - 3295 need a way to control only asserts/covers/assume directives
- Currently working on
 - Champion’s feedback
 - Checker usability enhancements (mantis 3033)
- Meeting on a weekly basis (one and a half hours)

SV-BC

STATUS

- Meeting bi-weekly
- Top 25 now Top 24
 - 2991 Moved to SV-EC as motivated by testbench users
- Mantis 2 of Top 24 resolved (210 & 696)
- 24 total issues now in 'Resolved' state
- Status remains unchanged from last time
 - Met once (conflict with July holiday)
 - No new items resolved

Risks / Opens / Issues

- Macro issues require reference software to facilitate discussions. Long lead time to complete software.
- Limited proposal bandwidth from key contributors. Contention with SV-EC.

Near-Term Plans

- **1523** - behavior of ?: on complex types
- **2289** - parameters inside comp unit and gen block are local
- **1504** - parameterized structures (and unions)
- **3073** - \$bits issues
- **1251** - x/z behavior
- **2081** – always_comb statements

Top-25 SV-BC Issues

Rank	Mantis ID	Summary	Rank	Mantis ID	Summary
1	696	Parameterized tasks, functions	13	1697	Macro Loops
2	2310	Clarified Macro Semantics	14	1202	define standard preprocessor
3	3053	Virtual interface and interface-port issues	15	1251	x/z behavior in various contexts
4	3055	Design construction issues	16	2289	parameters inside comp unit and gen block are local
5	2991	Extension of enumerated types	17	1504	Parameterized Structures (and Unions)
6	1566	Variable number of task and function arguments	18	1144	Out-of-bounds array address
7	2114	Problems in definition of modports/abstract modports	19	2081	always_comb statements
8	210	Generate for module port definitions and instance port connections	20	1553	nested module clarifications
9	3056	Master list of port issues	21	2684	Variable part-selects
10	1084	Logical Expressions in Macros	22	1861	Major enhancement of modports
11	2115	X-Optimism/X-Pessimism resolution	23	1523	behavior of ?: on complex types
12	3073	Collected \$bits issues	24	3074	Connectivity Enhancements
			25	2124	`default_nettype var-type directive



SV-CC

- Still working on DPI-OO proposal (mantis 3087)
- Did not meet last week due to the holiday
- Requested estimates on time required to review mantis 3087

SV-DC

- Met once since the last Working Group meeting
 - Next meeting will be July 27th
- Discussing generic interconnect
 - The vendors are working through the proposal details
 - No mantis item yet – the proposal is in outline form (Gord)
- Discussed mantis 3625 – definition of “pure functions”
 - The concern is related to preserving state information
 - Not just an issue for the sv-dc (currently assigned to sv-bc)
 - Will be sent to other TC’s
- Nominations are open for a new co-chair
 - Some interest has been expressed

SV-EC

Status

- Held 1 regular meeting since last update.
- Held one email vote
 - Three items on list – none passed
- Mantis 2506 didn't pass by the champions
 - Proposal was updated to address feedback
- Reviewing and discussing the following
 - 1356 Interface classes (getting close to done)
 - 3002 AOP
- Considering a possible face-to-face meeting
 - Late-July or early August

Risks / Opens / Issues

- A few complex items consume a lot of the available time.
- Progress has been slower than we would need for meeting the deadlines.

July/August 2011 PLANS

- Finalize plans for face-to-face meeting
- Finalize all major mantis item proposals
- Next regular meetings will be July 18, August 1, 15, 29

SV-EC top-25 mantis item list

top 25 Rank	Mantis ID	#Votes	weighted vote	Summary	Degree of difficulty
1	2848	7	159	Is it legal to assign an interface containing class declaration to a virtual interface	med
2	3002	8	125	Aspect Oriented Programming (AOP) features	High
3	3046	8	112	Dotted names within inlined constraints	Low
4	1356	6	112	Multiple Inheritance	High
5	3001	9	102	Proper Polymorphic behavior of instantiation	low
6	2999	7	99	Class Handle reference inside of Constraints	med
7	3003	6	98	Constraint Composition	High
8	3082	7	96	(4) Ambiguity resolution	
9	2845	4	84	virtual interface type checking versus interface type that had been defparam'ed	high
10	2956	4	76	clarify class 'process' definition (9.7 vs 18.13.3, 18.13.4, 18.13.5)	low
11	2505	4	76	class select: what is allowed after the dot?	low
12	2735	4	73	Ballot Comment #48: Chaining of method calls	med
13	1706	4	72	Meaning of static prefix for virtual interface assignments	
14	2488	4	69	Are virtual method calls legal within class constructors?	med
15	2112	6	69	Remove restrictions on NBA assignments to class members	med
16	3028	6	68	constraints for unique array elements.	Med
17	2950	4	67	virtual method prototype matching	low
18	2794	4	64	Clarify queue methods return status	low
19	2993	4	63	Cross cover points across different cover groups	med
20	1442	3	63	Clocking blocks legal in modports, missing from text description in 20.9	
21	2506 [2953]	6	61	Algorithmic generation of covergroup bin contents [2506 to replace 2953]	high
22	1349	5	61	fork/join_none: what if parent thread terminates without blocking statement?	
23	2949	4	60	LRM is silent about the semantics of referencing a clocking block output	low
24	2451	6	58	Omitting body defaults	med
25	2987	6	56	Soft Constraints	med
	3278	Related to 1356		virtual method type rules	
	3279	Related to 1356		Enhance method override rules to allow covariant typing	
	3293	Related to 1356		Clarify \$cast behaviour on class handles	

SV-FC

- No activity since the last Working Group meeting

Champions

- Held an email vote for 8 mantis items ending July 1
 - 4 were sent back to the committees
 - 3 passed
 - Quorum was not reached on one
- There are 3 mantis items ready for the Champions
 - These will be part of the next email vote
- Champions comments on quality of proposals
 - There were lots of editorial issues
 - Also many issues just beyond what the Editor could correct
- The rejection rate seems to be fairly high