



ORACLE[®]



Technical Committee Status 01/13/11

Neil Korpusik
P1800 Technical Chair

SV-AC

- The following mantis items have been resolved
 - 2387: Layout of 16.11 is inconsistent
 - 2934: Precedence and associativity of case operator is not shown in the table
- Currently working on the following enhancements
 - 3036: Explicitly allow unpacked data types for arguments of assertion system functions
 - 3037: Introduce assertion system functions for 4-valued type support
- Request authorization to work on the following enhancement:
 - 3295: need a way to control only asserts/covers/assume directives
 - Currently assertion control system tasks do not provide a way to control only specific types of directives.

```
assert_task [ ( levels [ , list_of_modules_or_assertions ] ) ] ;  
$asserton, $assertoff, $assertkill
```

- Planning to hold a F2F meeting at the beginning of March.
- The committee continues to meet on a weekly basis.

SV-BC

- Currently focusing on enhancing the usability of interfaces
 - Where possible, devising methodological solutions that stay within the existing standard
 - This same strategy was followed for Mantis 696, regarding parameterized subroutines.
 - Existing parameterized virtual classes can be used to get the desired effect
 - A new sub-clause was written to demonstrate it
- A couple of informal meetings were held to discuss interfaces
 - Jonathan Bromley is working on a a realistic example to test our ideas against.
- Elections of chairs will be held during the next conference call
- Bi-weekly meetings resume on Jan 19th

Top-25 SV-BC Issues

Rank	Mantis ID	Summary
1	696	Parameterized tasks, functions
2	2310	Clarified Macro Semantics
3	3053	Virtual interface and interface-port issues
4	3055	Design construction issues
5	2991	Extension of enumerated types
6	1566	Variable number of task and function arguments
7	2114	Problems in definition of modports/abstract modports
8	210	Generate for module port definitions and instance port connections
9	3056	Master list of port issues
10	1084	Logical Expressions in Macros
11	2115	X-Optimism/X-Pessimism resolution
12	3073	Collected \$bits issues

Rank	Mantis ID	Summary
13	1697	Macro Loops
14	1202	define standard preprocessor
15	1251	x/z behavior in various contexts
16	2289	parameters inside comp unit and gen block are local
17	1504	Parameterized Structures (and Unions)
18	1144	Out-of-bounds array address
19	2081	always_comb statements
20	1553	nested module clarifications
21	2684	Variable part-selects
22	1861	Major enhancement of modports
23	1523	behavior of ?: on complex types
24	3074	Connectivity Enhancements
25	2124	`default_nettype var-type directive

SV-CC

- Only met once since the last P1800 meeting
- Two additional Mantis items were resolved
- Mantis 3087
 - A large proposal is in the works for the DPI
 - Cadence is still working on the proposal
 - OO import/exports for various languages (e, SystemC, C++)
- Election of Chair and Co-Chair
 - The election process has not yet concluded

SV-DC

- Have not met since the last Working Group meeting
 - The Holidays and illnesses caused interruptions
- Election of new Co-Chair
 - Will be held during the next conference call

STATUS

- Hasn't met since the last Working Group meeting
 - December 6 2010 was the most recent meeting.

Risks / Opens / Issues

- The new voting policy may hamper effective participation from previous usual attendees.
- A few complex items on the review list may consume all available time.

January 2011 PLANS

- Continue work on the top 25 list.
- Finalize 1356 and 2506.
- Next regular meetings will be January 17 and January 31 2011 to keep the present bi-weekly theme.

SV-EC mantis item list for 2012 Draft

top 25 Rank	Mantis ID	Number of Votes	weighted vote	Summary	Degrees 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 (see slide 10 for examples of parts of the Standard that have been interpreted differently by different simulators)	
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

- 31 Mantis items were reviewed in the email vote which completed on December 13th
 - 6 were sent back to the committees
 - 25 are ready for Working Group approval
- There are 11 more in the resolved state
 - These will become part of the next email vote