Status:	New	Priority:	High		
Author:	Grégoire Sutre	Category:			
Created:	07/22/2010	Assignee:	Tristan Le Gall		
Updated:	06/23/2011	Due date:			
Subject:	Scm consistency check takes too	long			
Description:	On large examples, the scm consistency check takes a very long time. The attached scripts produce scm				
	models that are simple (no actions) but large.				
	* flat.scm.sh _size_: a single automaton with _size_ locations and _size_ transitions.				
	* product.scm.sh _size_: a product of _size_ automata, each consisting of 2 locations and 2 transitions.				
	The times in the table below have been obtained with the following commands (see attached files) :				
	<pre></pre>				
	sh flat.scm.sh <size>   mcscm.native -statistics</size>				
	sh product.scm.sh <size>   mcscm.native -statistics</size>				
	On these examples (which do not have bad states), 95% of the total running time is taken by the scm				
	consistency check. The table also contains an entry for the _peterson_3.scm_ example, where 90% of the				
	total running time is taken by the s	cm consistency check.			
	Size Locations Transitions Consistency Check				
	_/3=.Flat 10000 10000 4.12 s				
	20000 20000 20000 21.45 s				
	30000 30000 48.43 s				
	_/3=.Product 11 2048 22528 2.24 s				
	12 4096 49152 15.14 s				
	13 8192 106496 80.88 s				
	Peterson 3 10648 56628 37.80 s				

## McScM - Bug # 25: Scm consistency check takes too long

## History

## 04/08/2011 01:42 pm - Grégoire Sutre

- Target version set to 1.x
- Start date deleted (07/22/2010)

## 06/23/2011 12:31 pm - Tristan Le Gall

- Assignee set to Tristan Le Gall

Files			
flat.scm.sh	247 Bytes	07/22/2010	Grégoire Sutre
product.scm.sh	228 Bytes	07/22/2010	Grégoire Sutre