

hifrog - To do #9433

strong itp-lra-algorithm generates redundant formula

28/11/2018 22:43 - Sepideh Asadi

Status:	New	Start date:	28/11/2018
Priority:	Normal	Due date:	
Assignee:	Sepideh Asadi	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
investigate LRA strong itp Alg and compare the result with weak one; it seems weak mode generates compact and good summary, the same as TACAS version, but STRONG mode contains some redundant parts in the formula.			

example:			
<pre>short get_nondet_short(); int abs(int x) { return x >= 0 ? x : -x; } int main() { int x = get_nondet_short(); x = abs(x); int y = x + 2; assert(y >= 0); }</pre>			

How to run?			
weak:			
<pre>./hifrog --logic qflra --itp-lra-algorithm 2 example.c</pre>			
strong:			
<pre>./hifrog --logic qflra --itp-lra-algorithm 0 example.c</pre>			