

5.218 `leq_cst`

	DESCRIPTION	LINKS
Origin	Arithmetic.	
Constraint	<code>leq_cst(VAR1, VAR2, CST2)</code>	
Arguments	VAR1 : <code>dvar</code> VAR2 : <code>dvar</code> CST2 : <code>int</code>	
Purpose	Enforce the fact that the first variable is less than or equal to the sum of the second variable and the constant.	
Example	<div style="border: 1px solid black; padding: 2px; display: inline-block;">(5, 2, 4)</div> The <code>leq_cst</code> constraint holds since 5 is less than or equal to $2 + 4$.	
Typical	$CST2 \neq 0$ $VAR1 < VAR2 + CST2$	
Symmetries	<ul style="list-style-type: none"> Arguments are permutable w.r.t. permutation (VAR1) (VAR2, CST2). VAR1 can be replaced by any value $\leq VAR2 + CST2$. VAR2 can be replaced by any value $\geq VAR1 - CST2$. CST2 can be replaced by any value $\geq VAR1 - VAR2$. 	
See also	common keyword: <code>geq_cst</code> (<i>binary constraint, arithmetic constraint</i>). implied by: <code>distance</code> , <code>eq_cst</code> . specialisation: <code>leq</code> (constant set to 0).	
Keywords	constraint arguments: binary constraint. constraint type: predefined constraint, arithmetic constraint. filtering: arc-consistency. modelling exercises: metro.	

20090912

1515