

5.109 distance

	DESCRIPTION	LINKS
Origin	Arithmetic constraint.	
Constraint	<code>distance(X, Y, Z)</code>	
Arguments	X : <code>dvar</code> Y : <code>dvar</code> Z : <code>dvar</code>	
Restriction	$Z \geq 0$	
Purpose	Enforce the fact that Z is equal to $ X - Y $.	
Example	<div style="border: 1px solid blue; padding: 2px; display: inline-block;">(5, 7, 2)</div> The <code>distance</code> constraint holds since $2 = 5 - 7 $.	
Typical	$Z > 0$	
Symmetry	Arguments are <code>permutable</code> w.r.t. permutation (X, Y) (Z).	
Systems	<code>distanceEQ</code> in Choco , <code>distance</code> in JaCoP , <code>distance2</code> in JaCoP .	
See also	related: <code>all_min_dist</code> (fixed minimum distance between all pairs of variables of a collection of variables), <code>smooth</code> .	
Keywords	constraint arguments: ternary constraint. constraint type: arithmetic constraint, predefined constraint.	

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