

## 5.273 neq

	DESCRIPTION	LINKS
Origin	Arithmetic.	
Constraint	<code>neq(VAR1, VAR2)</code>	
Synonym	<code>rel</code> .	
Arguments	VAR1 : <a href="#">dvar</a> VAR2 : <a href="#">dvar</a>	
Purpose	Enforce the fact that two variables are not equal.	
Example	<div>(1, 8)</div> <p>The <code>neq</code> constraint holds since 1 is not equal to 8.</p>	
Symmetries	<ul style="list-style-type: none"> <li>Arguments are <a href="#">permutable</a> w.r.t. permutation (VAR1, VAR2).</li> <li>A value in VAR1 or VAR2 can be <a href="#">renamed</a> to any unused value.</li> </ul>	
Systems	<code>neq</code> in <a href="#">Choco</a> , <code>rel</code> in <a href="#">Gecode</a> , <code>#\=</code> in <a href="#">SICStus</a> .	
See also	<p><b>common keyword:</b> <code>geq</code>, <code>leq</code> (<i>binary constraint</i>, <i>arithmetic constraint</i>).</p> <p><b>generalisation:</b> <code>neq_cst</code> (<i>constant added</i>), <code>not_all_equal</code>.</p> <p><b>implied by:</b> <code>gt</code>, <code>lt</code>.</p> <p><b>negation:</b> <code>eq</code>.</p> <p><b>system of constraints:</b> <code>alldifferent</code>.</p>	
Keywords	<p><b>constraint arguments:</b> <i>binary constraint</i>.</p> <p><b>constraint type:</b> <i>predefined constraint</i>, <i>arithmetic constraint</i>.</p> <p><b>filtering:</b> <i>arc-consistency</i>.</p>	

20070821

1779