

5.269 multiple

	DESCRIPTION	LINKS
Origin	Arithmetic.	
Constraint	<code>multiple(X, Y, C)</code>	
Arguments	X : <code>dvar</code> Y : <code>dvar</code> C : <code>int</code>	
Restrictions	$X \neq 0$ $Y \neq 0$ $C > 0$	
Purpose	Enforce $\max(X , Y) = C \cdot \min(X , Y)$, (with $ X \neq 0$ and $ Y \neq 0$).	
Example	<code>(8, -2, 4)</code>	
	The <code>multiple</code> constraint holds since $\max(8 , -2) = 4 \cdot \min(8 , -2)$.	
Typical	$C > 1$	
Arg. properties	Functional dependency: C determined by X and Y.	
Keywords	constraint arguments: binary constraint. constraint type: predefined constraint, arithmetic constraint. modelling: functional dependency.	

20120501

1757