5.274 neq_cst

DESCRIPTION LINKS

Origin Arithmetic.

Constraint neq_cst(VAR1, VAR2, CST2)

Arguments

VAR1	:	dvar
VAR2	:	dvar
CST2	:	int

Purpose Enforce the fact that the first variable is different from the sum of the second variable and the constant.

Example $(8, 2, 7)$

The neq_cst constraint holds since 8 is different from $2 + 7$.

Typical

$\texttt{CST2} \neq 0$

$\texttt{VAR1} \neq \texttt{VAR2} + \texttt{CST2}$

Symmetries

- Arguments are permutable w.r.t. permutation $(\texttt{VAR1})$ $(\texttt{VAR2}, \texttt{CST2})$.
- One and the same constant can be added to VAR1 and VAR2.
- One and the same constant can be added to VAR1 and CST2.

See also **negation:** eq_cst.

specialisation: neq (constant *removed*).

Keywords **characteristic of a constraint:** disequality.

constraint arguments: binary constraint.

constraint type: predefined constraint, arithmetic constraint.

filtering: arc-consistency.