Graph-Theoretic Property:

\[ \texttt{atisCompleteUnilaterallyConnectedComponentsSet} \]

(Graph-theoretic properties are those properties that are part of the meta-theory and have been abducted from graph theory to be used as a tool to provide solutions concerning the theory. Those solutions may be assigned as values to components or relations of the theory and thereby become part of the theory.)

**Complete unilaterally connected component set** \( \text{CUC}\mathrel{\mathcal{E}} = \text{df} \) The set of all unilaterally connected components with respect to a given relation, \((x,y)\), that does not include branching.

\[
\text{CUC}\mathrel{\mathcal{E}} = \text{df} \quad \mathcal{X} = \{ x \mid x \in \mathcal{R} \subseteq S_0 \land \forall y \in \mathcal{R} [ x \neq y \land (x,y) \in _{uc} \mathcal{E} ] \}
\]

**Complete unilaterally connected component set** is defined as a set of unilaterally connected pairs.