MODULE *SetStateSpace*

Set representation of state space, used by *AbsJupiter*.

EXTENDS *JupiterCtx*

RECURSIVE $xForm(\_, \_, \_, \_)$ Transform cop in state space ss at replica $r \in$ Replica.

$xForm(NextCop(\_, \_, \_, \_),\ r,\ cop,\ ss) \triangleq$

LET $ctxDiff \triangleq ds[r] \setminus cop.ctx$ THEOREM : $cop.ctx \subseteq ds[r]$

RECURSIVE $xFormHelper(\_, \_, \_)$

$xFormHelper(coph,\ ctxDiffh,\ xss) \triangleq$ Return transformed $xcop$

IF $ctxDiffh = \{\}$ THEN $[xcop \mapsto coph,\ xss \mapsto xss]$ and new state space xss

ELSE LET $fcoph \triangleq NextCop(r,\ coph,\ ss,\ ctxDiffh)$

$xcoph \triangleq COT(coph,\ fcoph)$

$xfcoph \triangleq COT(fcoph,\ coph)$

IN $xFormHelper(xcoph,\ ctxDiffh \setminus \{fcoph.oid\},$

$xss \cup \{xcoph,\ xfcoph\})$

IN $xFormHelper(cop,\ ctxDiff,\ ss \cup \{cop\})$

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* Modification History

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