MODULE *SetStateSpace*

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

EXTENDS *JupiterCtx*, *JupiterSerial*

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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