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MODULE CJupiter
VARIABLES css
                        css[r]: the n-ary digraph maintained at replica r
NextEdge(r, u, g) \stackrel{\triangle}{=} CHOOSE \ e \in g.edge : \land e.from = u
                                                                \land \forall ue \in q.edge \setminus \{e\}:
                                        (ue.from = u) \Rightarrow so(e.cop.oid, ue.cop.oid, serial[r])
Perform(r, cop) \triangleq \text{LET } xform \triangleq xForm(NextEdge, r, cop, css[r])
                             IN \wedge css' = [css \text{ EXCEPT } ! [r] = @ \oplus xform.xq]
                                     \land apply xform.xcop.op to list[r]
Do(c, op) \stackrel{\Delta}{=} \text{LET } cop \stackrel{\Delta}{=} [op \mapsto op, oid \mapsto [c \mapsto c, seq \mapsto cseq[c]], ctx \mapsto ds[c]]
                             u \triangleq ds[c] \quad v \triangleq u \cup \{cop.oid\}
                    IN \wedge css' = [css \text{ EXCEPT } ! [c] = \text{ append } cop \text{ to } u \text{ (i.e., } ds[c])
                               @ \oplus [node \mapsto \{v\}, edge \mapsto \{[from \mapsto u, to \mapsto v, cop \mapsto cop]\}
                            \land apply op to list[c]; send cop to the Server
Rev(c, cop) \stackrel{\Delta}{=} Perform(c, cop)
SRev(cop) \stackrel{\Delta}{=} \land Perform(Server, cop)
                      \land broadcast cop to clients other than ClientOf(cop)
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