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MODULE XJupiterImplCJupiter
EXTENDS XJupiter
 We have omitted the history variables for recording serial views.
Variables op2ss,
                        a function mapping an operation (identifier)
                         to the 2D digraph produced during its transformation at the server
              c2ssX
                        c2ssX[c]: 2D digraph that has been skipped by client c
InitImpl \stackrel{\Delta}{=} \land Init
                ∧ on history variables for serial views
                \wedge op2ss = \langle \rangle the empty function expressed in TLA+
                \land c2ssX = [c \in Client \mapsto EmptyGraph]
DoImpl(c, op) \stackrel{\Delta}{=} \wedge Do(c, op)
                       \wedge on history variables for serial views
RevImpl(c, cop) \triangleq \land Rev(c, cop)
                          \wedge on history variables for serial views
                          \wedge c2ssX' = [c2ssX \text{ EXCEPT } ![c] = @ \oplus op2ss[cop.oid]]
SRevImpl(cop) \triangleq \land SRev(cop)
                        \wedge on history variables for serial views
                        \wedge LET xform \stackrel{\Delta}{=} xForm(NextEdge, Server, cop, <math>s2s[ClientOf(cop)])
                               op2ss' = op2ss @@(cop.oid:> xform.xq)
CJ \stackrel{\Delta}{=} \text{INSTANCE } CJupiter \text{ WITH } css \leftarrow [r \in Replica \mapsto
                           IF r = Server THEN SetReduce(\oplus, Range(s2ss), EmptyGraph)
                                             ELSE c2ss[r] \oplus c2ssX[r]
```