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– Module Log -
INSTANCE Naturals
INSTANCE Sequences
LOCAL INSTANCE IOUtils
LOCAL INSTANCE Json
CONSTANT Enabled
CONSTANT File
CONSTANT CurrState
Constant SuccState
FormatOpts \triangleq
   [format
                   \mapsto "TXT".
    charset
                   \mapsto "UTF-8".
    openOptions \mapsto \langle \text{"WRITE"}, \text{"CREATE"}, \text{"APPEND"} \rangle ]
Delete \triangleq
   \wedge IOExec(\langle \text{"rm"}, \text{"-f"}, File \rangle).exitValue = 0
Log(context) \triangleq
    Enabled \Rightarrow
       Let currState \triangleq [k \in \{k \in DOMAIN \ CurrState : DOMAIN \ CurrState[k] \neq \{\}\} \mapsto CurrState[k]]
             succState \triangleq [k \in \{k \in DOMAIN \ SuccState : DOMAIN \ SuccState[k] \neq \{\}\} \mapsto SuccState[k]]
                          \stackrel{\triangle}{=} [context \mapsto context,
             record
                              currState \mapsto currState,
                              succState \mapsto [k \in \{k \in DOMAIN \ succState : k \in DOMAIN \ currState \Rightarrow \}
                                                          currState[k] \neq succState[k] \mapsto succState[k]
             Serialize(ToJsonObject(record) \circ "\n", File, FormatOpts).exitValue = 0
Action(action, context) \stackrel{\Delta}{=}
   \land action
   \land Log(context)
Assume Enabled \in Boolean
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