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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  $\mapsto$  <"WRITE", "CREATE", "APPEND">]

Init  $\triangleq$ 
   $\wedge$  IOExec(<"rm", "-f", FileLog(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]]
      record  $\triangleq$  [context  $\mapsto$  context,
                  currState  $\mapsto$  currState,
                  succState  $\mapsto$  [k  $\in$  {k  $\in$  DOMAIN succState : k  $\in$  DOMAIN currState  $\Rightarrow$ 
                                     currState[k]  $\neq$  succState[k]  $\mapsto$  succState[k]}]]
    IN Serialize(ToJsonObject(record)  $\circ$  "&#92;n", File, FormatOpts).exitValue = 0

Action(action, context)  $\triangleq$ 
   $\wedge$  action
   $\wedge$  Log(context)

ASSUME Enabled  $\in$  BOOLEAN

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\ * Modification History
\ * Last modified Mon Feb 21 01:49:57 PST 2022 by jordanhalterman
\ * Created Sun Feb 20 01:18:19 PST 2022 by jordanhalterman

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