
MODULE *Log*

INSTANCE *Naturals*
 INSTANCE *Sequences*
 LOCAL *IOUtils* \triangleq INSTANCE *IOUtils*
 LOCAL *Json* \triangleq INSTANCE *Json*
 CONSTANT *Enabled*
 CONSTANT *File*
 CONSTANT *CurrentState*
 CONSTANT *SuccessorState*
FormatOpts \triangleq
 [*format* \mapsto "TXT",
 charset \mapsto "UTF-8",
 openOptions \mapsto <"WRITE", "CREATE", "APPEND">]
Init \triangleq
 \wedge *IOUtils*!IOExec(<"rm", "-f", *File*>).exitValue = 0
Log(*context*) \triangleq
 Enabled \Rightarrow
 LET *current* \triangleq [*k* \in {*k* \in DOMAIN *CurrentState* : DOMAIN *CurrentState*[*k*] \neq {}} \mapsto *CurrentState*[*k*]]
 successor \triangleq [*k* \in {*k* \in DOMAIN *SuccessorState* : DOMAIN *SuccessorState*[*k*] \neq {}} \mapsto *SuccessorState*[*k*]]
 record \triangleq [*context* \mapsto *context*,
 current \mapsto *current*,
 successor \mapsto [*k* \in {*k* \in DOMAIN *successor* : *k* \in DOMAIN *current* \Rightarrow *current*[*k*] \neq *successor*[*k*]}]]
 IN \wedge *IOUtils*!Serialize(*Json*!ToJsonObject(*record*), *File*, *FormatOpts*).exitValue = 0
 \wedge *IOUtils*!Serialize("\n", *File*, *FormatOpts*).exitValue = 0
Action(*action*, *context*) \triangleq
 \wedge *action*
 \wedge *action* \Rightarrow *Log*(*context*)
 ASSUME *Enabled* \in BOOLEAN

\ * 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