———————————————— MODULE *Trace* ————————————————

The *Trace* module logs model traces to a *JSON* file.

LOCAL INSTANCE *Naturals*

LOCAL INSTANCE *Sequences*

LOCAL INSTANCE *Json*

LOCAL INSTANCE *TLC*

CONSTANT *Enabled*

CONSTANT *File*

CONSTANT *Depth*

VARIABLE *trace*

$Add(action, context) \triangleq$
    $\wedge\ Enabled$
    $\wedge\ Len(trace) < Depth$
    $\wedge\ trace' = Append(trace, [action \mapsto action, context \mapsto context])$

$Log(filename) \triangleq$
    $\wedge\ Enabled$
    $\wedge\ Len(trace) > 0$
    $\wedge\ JsonSerialize(File, trace)$

$Init \triangleq$
    $\wedge\ trace = \langle\rangle$

\ * Modification History
\ * Last modified *Thu Sep* 30 11:59:31 *PDT* 2021 by *jordanhalterman*
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