```
- MODULE Trace
CONSTANT Module
CONSTANT InitState
Constant NextState
Init \triangleq
   Let IOUtils \triangleq INSTANCE IOUtils
       LET ret \stackrel{\triangle}{=} IOUtils!IOExecTemplate(\langle "rm", "%s.log" \rangle, \langle Module \rangle)
       IN TRUE
Log(name, args) \triangleq
    LET IOUtils \stackrel{\triangle}{=} INSTANCE IOUtils
Json \stackrel{\triangle}{=} INSTANCE Json
    IN
        Let init \triangleq InitState
               next \triangleq NextState
               trace \; \stackrel{\Delta}{=} \; [action \mapsto name,
                            args \mapsto args,
                            next \mapsto [k \in \{k \in DOMAIN \ next : next[k] \neq init[k]\} \mapsto next[k]]]
                       \triangleq IOUtils!IOExecTemplate(\langle "/bin/sh", "-c", "echo '%s' >> %s.log"), \langle Json!ToJsonObject(
             ret.exitValue = 0
        IN
Step(name, action, args) \triangleq
    \land \ action
    \land action \Rightarrow Log(name, args)
```

^{*} Modification History

^{*} Last modified Sun Feb 20 08:00:38 PST 2022 by jordanhalterman

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