
MODULE *Configuration*

EXTENDS *Mastership*

INSTANCE *Naturals*

INSTANCE *FiniteSets*

LOCAL INSTANCE *TLC*

Status constants

CONSTANTS

ConfigurationInProgress,
ConfigurationComplete,
ConfigurationFailed

CONSTANT *TraceConfiguration*

A record of per-target configurations

VARIABLE *configuration*

LOCAL *InitState* \triangleq

[*configurations* \mapsto *configuration*,
targets \mapsto *target*,
masterships \mapsto *mastership*,
nodes \mapsto *node*]

LOCAL *NextState* \triangleq

[*configurations* \mapsto *configuration'*,
targets \mapsto *target'*,
masterships \mapsto *mastership'*,
nodes \mapsto *node'*]

LOCAL *Trace* \triangleq INSTANCE *Trace* WITH

Module \leftarrow "Configurations",
InitState \leftarrow *InitState*,
NextState \leftarrow *NextState*,
Enabled \leftarrow *TraceConfiguration*

This section models the *Configuration* reconciler.

ReconcileConfiguration(*n*) \triangleq

\wedge *mastership.master* = *n*
 $\wedge \vee \wedge$ *configuration.state* \neq *ConfigurationInProgress*

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