```
CONTEXT Ctr_HM
EXTENDS Ctr_IPC
SETS
```

SYSTEM_ERRORS

MODULE_RECOVERY_ACTIONS

PARTITION_RECOVERY_ACTIONS

 $ERROR_LEVEL_MP$

ERROR_LEVEL_P

MODULE_STATES

PROC_LEVEL_ERRORS

CONSTANTS

MLA_IGNORE

MLA_SHUTDOWN

 MLA_RESET

PLA_IGNORE

PLA_IDLE

PLA_WARM_START

PLA_COLD_START

ERROR_LEVEL_MODULE

ERROR_LEVEL_PARTITION1

ERROR_LEVEL_PARTITION2

ERROR_LEVEL_PROCESS

DEADLINE_MISSED

APPLICATION_ERROR

ILLGAL_REQUEST

STACK_OVERFLOW

MEMORY_VIOLATION

HARDWARE_FAULT

POWER_FAILURE

 $Module_HM_Table$

MultiPart_HM_Table

 $Partition_HM_Table$

AXIOMS

```
 \begin{array}{ll} \textbf{axm\_system:} & finite(SYSTEM\_ERRORS) \land card(SYSTEM\_ERRORS) > 0 \\ \textbf{axm\_module\_rec:} & partition(MODULE\_RECOVERY\_ACTIONS, \{MLA\_IGNORE\}, \{MLA\_SHUTDOWN\}, \{MLA\_SHUTDOW
```

 $\verb|axm_multiPart_hm_tab|: MultiPart_HM_Table \in PARTITIONS \rightarrow (SYSTEM_ERRORS \rightarrow MODULE_RECOVERY_ARTITIONS) + (SYSTEM_ERRORS \rightarrow MODULE_RECOVERY_ARTITIONS \rightarrow (SYSTEM_ERRORS \rightarrow MODULE_RECOVERY) + (SYSTEM_ERRORS \rightarrow MODULE_RECOVER \rightarrow MODULE_RECOVER + (SYSTEM_ERRORS \rightarrow MODU$

END

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 $PARTITION_RECOVERY_ACTIONS \rightarrow PROC_LEVEL_ERRORS))$