

## SWFMEA – Module M

This Section documents the verification results for the files M.

The symbols for notes are used in the following sense:

- ✓ failure type does not occur for item
- NA failure type not relevant for item
- failure may occur but is not relevant to Verification Goals
- ! failure may occur and is relevant for Verification Goals

For Data-Related Failures, the following conventions are used to interpret the failure types:

- absent C code: variables and parameters can not be absent unless the code does not compile; excluding these situations, the only relevant form of absence for such values is their use without initialization
- incorrect use of incorrect value for variables or parameters or effect of returning incorrect value
- timing timing is only considered where it is explicitly mentioned; only relevant for data from interfaces.  
exception: considerations how interrupts of functions may influence code execution. This can in the case of variables be reduced to the case where global values can be changed during such intermediate calculations.
- duplicate This can in the case of variables be reduced to the case where global values can be changed during intermediate calculations (due to switch to other task).

Data-Related Failures						
Function <b>f</b>						
Data Item	Failure Type	Description	Local Effect	Global Effect	Note	Id
<b>x</b>	absent					
	incorrect	incorrect value submitted to call				
	wrong timing duplicate					
		value changes during calculation				
<b>y</b>	absent					
	incorrect	incorrect value submitted to call				
	wrong timing duplicate				NA	
		value changes during calculation				

Data-Related Failures						
Function <b>g</b>						
Data Item	Failure Type	Description	Local Effect	Global Effect	Note	Id
	absent	uninitialized use				
	incorrect	use of incorrect value				
	wrong timing					
	duplicate					

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Functional Failures						
Function <b>g</b>						
Description	Failure Mode	Location	Local Effect	Global Effect	Note	Id
	omission					
	incorrect logic					

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