

MutationOpt	FaultModel	DataItem	Span	Type	FaultClass	Min	Max	Threshold	Delta	State	Value
	TempMessage	1	1	INT	VAT	NA	NA	100	10	NA	NA
	TempMessage	1	1	INT	FVAT	NA	NA	100	10	NA	NA

	TestSuite1			
	Decription	Complete suite		
		Test 1	Test2	
	Exchanged data			
Message1	temp_1	50	120	
	Oracles			
	temperature	"==50"	"==120"	
	temperature_alarm	"==0"	"==1"	
	Mutants			
	MUTANT 2			FAILING_TESTS
	temp_1	110	120	
	temperature	110	120	1
	temperature_alarm	1	1	1
	KILLED			TRUE
	MUTANT 2			FAILING_TESTS
	temp_1	50	90	
	temperature	50	90	2
	temperature_alarm	0	0	2
	KILLED			TRUE
	Mutation analysis			
	FMC	100%		
	MOC	100%		
	MS	100%		

	TestSuite3			
	Description:	Only temperature		
		Test 1	Test2	
	Exchanged data			
Message1	temp_1	50	120	
	Oracles			
	temperature	"==50"	"==120"	
	temperature_alarm			
	Mutants			
	MUTANT 1			FAILING_TESTS
	temp_1	110	120	
	temperature			
	temperature_alarm	1	1	1
	KILLED			TRUE
	MUTANT 2			FAILING_TESTS
	temp_1	50	90	
	temperature			
	temperature_alarm	0	0	2
	KILLED			TRUE
	Mutation analysis			
	FMC	100%		
	MOC	100%		
	MS	50%		

	TestSuite5			
	Description:	Imprecise oracle		
		Test 1	Test2	
	Exchanged data			
Message1	temp_1	50	120	
	Oracles			
	temperature	">=50"		
	temperature_alarm		"==1"	
	Mutants			
	MUTANT 1			FAILING_TESTS
	temp_1	110	120	
	temperature	110		
	temperature_alarm		1	
	KILLED			FALSE
	MUTANT 2			FAILING_TESTS
	temp_1	50	90	
	temperature	50		
	temperature_alarm		0	2
	KILLED			TRUE
	Mutation analysis			
	FMC	100%		
	MOC	100%		
	MS	50%		

	TestSuite2			
	Decription	Complete suite		
		Test1	Test2	
	Exchanged data			
Message1	temp_1	50	120	
	Oracles			
	temperature	"==50"		
	temperature_alarm		"==1"	
	Mutants			
	MUTANT 2			FAILING_TESTS
	temp_1	110	120	
	temperature	110		1
	temperature_alarm		1	1
	KILLED			TRUE
	MUTANT 2			FAILING_TESTS
	temp_1	50	90	
	temperature	50		
	temperature_alarm		0	2
	KILLED			TRUE
	Mutation analysis			
	FMC	100%		
	MOC	100%		
	MS	100%		

	TestSuite4			
	Description:	Only errors		
		Test 1	Test2	
	Exchanged data			
Message1	temp_1	50	120	
	Oracles			
	temperature			
	temperature_alarm	"==0"	"==1"	
	Mutants			
	MUTANT 1			FAILING_TESTS
	temp_1	110	120	
	temperature			
	temperature_alarm	1	1	1
	KILLED			TRUE
	MUTANT 2			FAILING_TESTS
	temp_1	50	90	
	temperature			
	temperature_alarm	0	0	2
	KILLED			TRUE
	Mutation analysis			
	FMC	100%		
	MOC	100%		
	MS	50%		

	TestSuite6			
	Description:	ssing oracle		
		Test 1	Test2	
	Exchanged data			
Message1	temp_1	50	120	
	Oracles			
	temperature	"==50"		
	temperature_alarm			
	Mutants			
	MUTANT 1			FAILING_TESTS
	temp_1	110	120	1
	temperature	110		
	temperature_alarm			
	KILLED			TRUE
	MUTANT 2			FAILING_TESTS
	temp_1	50	90	
	temperature	50		
	temperature_alarm	0		
	KILLED			FALSE
	Mutation analysis			
	FMC	100%		
	MOC	100%		
	MS	50%		