Model: LDCFModel		
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	Place Attributes:	
Place Names	Place Attributes: Initial Markings	1
Primary	1	4

ridoc Attributes.		
Place Names	Initial Markings	
Primary	1	
PrimarySafetyGate	1	
PrimarySafetyGateFailed	0	
PrimarySafetyGateSilent	0	
PrimaryWrongValidation	0	
PrioritySelectors	2	
SafeState	0	
Safing	1	
SafingSafetyGate	1	
SafingSafetyGateFailed	0	
SafingSafetyGateSilent	0	
SafingWrongValidation	0	
UnsafeState	0	

Officiale	0
Timed Activity:	CCF
	Rate
Distribution Parameters	
Distribution Farameters	r_ccf
Activation Predicate	(none)
Reactivation Predicate	(none)
	case 1
	p_ccf
	case 2
	p_ccf
Case Distributions	case 3
	ouse o
	p_ccf
	case 4
1	p_ccf
	Ib [−] ∞:

Timed Activity:	PrimaryFailure
	Rate
Distribution Parameters	fr_asilB
Activation Predicate	(none)
Reactivation Predicate	(none)

Timed Activity:	PrimarySafetyGateFailure
Timed Activity.	FillialySaletyGateFallule
	Rate
Distribution Parameters	fr_asilC
Activation Predicate	(none)
Reactivation Predicate	(none)

Timed Activity:	PrioritySelectorsFailure
	Rate
Distribution Parameters	fr_asilD * PrioritySelectors->Mark()
Activation Predicate	(none)
Reactivation Predicate	(none)

Timed Activity:	SafingFailure
	Rate
Distribution Parameters	
	fr_asilB
Activation Predicate	(none)
Reactivation Predicate	(none)

Timed Activity:	SafingMRM

	Rate
Distribution Parameters	r_MRM
Activation Predicate	(none)
Reactivation Predicate	(none)
Timed Activity:	SafingSafetyGateFailure SafingSafetyGateFailure
	Rate
Distribution Parameters	
	fr_asilC
Activation Predicate	fr_asilC (none)
	-
Activation Predicate	(none)
Activation Predicate	(none)

Instantaneous Activity:	PrimarySafetyGateFailureType
Case Distributions	case 1 p. safetygatesilent case 2 1-p. safetygatesilent
	1 P_datelygatesherit

Instantaneous Activity:	SafingSafetyGateFailureType
Case Distributions	case 1 p_safetygatesilent case 2 1-p_safetygatesilent

Instantaneous Activity:	prebufferedMRM
Case Distributions	case 1 1-p_MRM case 2
	I _{P_} MRM

Instantaneous Activities Without Cases: CatastrophicFailure

Input Gate:	CheckCatastrophicFailure			
Predicate	UnsafeState-Mark()+SafeState-Mark()==0 && ((Primary-Mark()==0 && Primary/Mony/diadation-Mark()==1) (((Primary-Mark()==0 && Primary/SafetyGate-Mark()==1) Primary-Mark()+Primary/Mony Validation-Mark()==2) && Safing-Mark()=0 && Safing-Mony/ailadation-Mark()==1))			
Eupotion				

Input Gate:	CheckNonCatastrophicFailure
Predicate	UnsafeState - Mark()+SafeState - Mark()=0 & & (Priority-Selectors - Mark()=0 Primary-Safety/SafeSilent - Mark()=0 Primary-Safety/SafeSilent - Mark()=0 & & Primary-Safety/SafeSilent - Mark()=0 & & Primary-Safety/Safe-Safety/Safety/Safe-Safety/Safety/Safe-Safety/Safety/Safe-Safety/Saf
Function	

Input Gate:	CheckSafingMRM					
Predicate	UnsafeState>Mark()+SafeState>Mark()==0 && Safing>Mark()+SafingSafetyGate>Mark()==2 && ((Primary>Mark()==0 && PrimarySafetyGate>Mark()==0 && PrimarySafetyGate>Mark()==0 && PrimarySafetyGate>Mark()==1) Primary>Mark()+Primary+WrongValidation>Mark()==2)					
Function						

Output Gate:	CCFPrimaryPrimarySafetyGate				
Function	if (Primary->Mark()+PrimarySafetyGate->Mark()==2) {				

Output Gate:	CCFPrimarySafing			
Function	if (Primary->Mark()+Safing->Mark()==2) { [Primary->Mark()=0; Safing->Mark()=0;			

Output Gate:	CCFPrimarySafingSafetyGates					
Function	if (SalingSafetyGate ->Mark()+PrimarySafetyGate ->Mark()==2) { SalingSafetyGate ->Mark()=0; PrimarySafetyGate ->Mark()=0; PrimarySafetyGate Failed ->Mark()=1; SalingSafetyGateFailed ->Mark()=1;					

Output Gate:	CCFSafingSafingSafetyGate			
Function	if (Saling-Mark()+SalingSafetyGate->Mark()==2) {			

Set Study: LDCFParameter:

Variable	Туре	Value
fr_asilB	double	1.0E-7
fr_asilC	double	1.0E-7
fr_asiID	double	1.0E-8
p_MRM	double	0.95
p_ccf	double	0.25
p_safetygatesilent	double	0.9
r_MRM	double	6.0
r_ccf	double	1.0E-9
	fr_asilB fr_asilC fr_asilD p_MRM p_ccf p_safetygatesilent r_MRM	tr_asilB double tr_asilC double tr_asilD double p_MRM double p_ccf double p_safetygatesilent double r_MRM double

Performance Variable Model: LDCFReward			
Top Loyal Madel Information	Child Model Name		
Top Level Model Information	Model Type	SAN Model	

Performance Variable : p_safestate					
Affecting Models	LDCFModel	LDCFModel			
Impulse Functions					
Reward Function	(Reward is	(Reward is over all Available Models)			
	if (LDCFModel->SafeState->Mark()==1) return 1;				
	Туре	Instant of Time			
	Options	Estimate Mean			
		Include Lower Bound on Interval Estimate			
		Include Upper Bound on Interval Estimate			
Simulator Statistics		Estimate out of Range Probabilities			
		Confidence Level is Relative			
	Parameters	Start Time	1000.0,2000.0,3000.0,4000.0,5000.0,6000.0,7000.0,8000.0,		
	Confidence	Confidence Level	0.95		
		Confidence Interval	0.1		

Performance Variable : p_unsafestate					
Affecting Models	LDCFModel	DCFModel			
Impulse Functions					
Reward Function	(Reward is over all Available Models) If (LDCFModel->UnsateState->Mark()==1) return 1;				
	Туре	Instant of Time			
	Options	Estimate Mean			
		Include Lower Bound on Interval Estimate			
		Include Upper Bound on Interval Estimate			
Simulator Statistics		Estimate out of Range Probabilities			
		Confidence Level is Relative			
	Parameters	Start Time	1000.0,2000.0,3000.0,4000.0,5000.0,6000.0,7000.0,8000.0,		
	Confidence	Confidence Level	0.95		
		Confidence Interval	0.1		

Performance Variable : mttf_safestate				
Affecting Models	LDCFModel	LDCFModel		
Impulse Functions				
Reward Function	(Reward is over all Available Models)			
	if (LDCFModel->SafeState->Mark()==0) return 1;			
	Туре	Interval of Time		
	Options	Estimate Mean		
		Include Lower Bound on Interval Estimate		
		Include Upper Bound on Interval Estimate		
Simulator Statistics		Estimate out of Range Probabilities		
Simulator Statistics		Confidence Level is Relative		
	Parameters	Start Time	0,	
		Stop Time	1000000000000,	
	Confidence	Confidence Level	0.95	
		Confidence Interval	0.1	

Performance Variable : mttf_unsafestate			
Affecting Models	LDCFModel		
Impulse Functions			
Reward Function	(Reward is over all Available Models)		
	if (LDCFModel->UnsafeState->Mark()==0) return 1;		
Simulator Statistics	Туре	Interval of Time	
	Options	Estimate Mean	
		Include Lower Bound on Interval Estimate	
		Include Upper Bound on Interval Estimate	
		Estimate out of Range Probabilities	
		Confidence Level is Relative	
	Parameters	Start Time	0.0,
		Stop Time	1000000000000,
	Confidence	Confidence Level	0.95
		Confidence Interval	0.1

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