

# **Simulink Design Verifier Report**

**Eas\_Integrated/Eas\_Subsystem**

**SOMNATH**

# **Simulink Design Verifier Report: Eas\_Integrated/Eas\_Subsystem**

SOMNATH

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# Chapter 1. Summary

## Analysis Information.

Model:	Eas_Integrated
Release:	R2021a
Analyzed Subsystem:	Eas_Integrated/Eas_Subsystem
Checksum:	2364402400 1502429244 1830922972 2321936094
Mode:	Design error detection
Model Representation:	Built on 29-Jul-2022 22:05:56
Status:	Completed normally
PreProcessing Time:	47s
Analysis Time:	36s

## Objectives Status.

<b>Number of Objectives:</b>	<b>115</b>	
Objectives Valid:	1	( 1% )
Active Logic:	114	( 99% )

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# Chapter 2. Analysis Information

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## Model Information

File:	Eas_Integrated
Version:	1.54
Time Stamp:	Thu Jul 28 22:48:44 2022
Author:	Admin

## Analysis Options

Mode:	DesignErrorDetection
Rebuild Model Representation:	IfChangeIsDetected
Detect dead logic (partial):	on
Run exhaustive analysis for dead logic:	on
Detect integer overflow:	on
Detect division by zero:	on
Detect specified minimum and maximum value violations:	off
Detect out of bound array access:	on
Detect non-finite and NaN floating-point values:	off
Detect subnormal floating-point values:	off
Detect data store access violations:	off
Detect specified block input range violations:	off
Detect usage of Math Function blocks with rem and reciprocal functions (hisl_0002):	off
Detect usage of Square Root blocks (hisl_0003):	off
Detect usage of Math Function blocks with log and log10 functions (hisl_0004):	off

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## Analysis Information

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Detect usage of Reciprocal Square Root blocks (hisl_0028):	off
Maximum Analysis Time:	300s
Block Replacement:	off
Parameters Analysis:	off
Include expected output values:	on
Randomize data that do not affect the outcome:	on
Additional analysis to reduce instances of rational approximation:	on
Save Data:	on
Save Harness:	on
Save Report:	off

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# Chapter 3. Design Error Detection Objectives Status

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## Objectives Valid

#	Type	Model Item	Description	Analysis Time (sec)
197	Division by zero	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Divide	Division by zero	15

## Active Logic

Simulink Design Verifier found that these decision and condition outcomes can occur.

#	Type	Model Item	Description	Analysis Time (sec)
9	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator	RelationalOperator: input1 >= input2 <b>true</b>	32
10	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator	RelationalOperator: input1 >= input2 <b>false</b>	32
12	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator1	RelationalOperator: input1 >= input2 <b>true</b>	32
13	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator1	RelationalOperator: input1 >= input2 <b>false</b>	32
15	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator2	RelationalOperator: input1 >= input2 <b>true</b>	32
16	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator2	RelationalOperator: input1 >= input2 <b>false</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
18	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND1	Logic: input port 1 <b>true</b>	32
19	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND1	Logic: input port 1 <b>false</b>	32
20	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND1	Logic: input port 2 <b>true</b>	32
21	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND1	Logic: input port 2 <b>false</b>	32
23	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator3	RelationalOperator: input1 >= input2 <b>true</b>	32
24	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator3	RelationalOperator: input1 >= input2 <b>false</b>	32
26	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator4	RelationalOperator: input1 >= input2 <b>true</b>	32
27	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator4	RelationalOperator: input1 >= input2 <b>false</b>	32
29	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND2	Logic: input port 1 <b>true</b>	32
30	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND2	Logic: input port 1 <b>false</b>	32
31	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND2	Logic: input port 2 <b>true</b>	32
32	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND2	Logic: input port 2 <b>false</b>	32
34	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND3	Logic: input port 1 <b>true</b>	32
35	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND3	Logic: input port 1 <b>false</b>	32
36	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND3	Logic: input port 2 <b>true</b>	32
37	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND3	Logic: input port 2 <b>false</b>	32
39	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND	Logic: input port 1 <b>true</b>	32
40	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND	Logic: input port 1 <b>false</b>	32
41	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND	Logic: input port 2 <b>true</b>	32



Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
42	Condition	Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND	Logic: input port 2 <b>false</b>	32
44	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Relational_Operator	RelationalOperator: input1 >= input2 <b>true</b>	32
45	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Relational_Operator	RelationalOperator: input1 >= input2 <b>false</b>	32
47	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Relational_Operator1	RelationalOperator: input1 >= input2 <b>true</b>	32
48	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Relational_Operator1	RelationalOperator: input1 >= input2 <b>false</b>	32
50	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/AND	Logic: input port 1 <b>true</b>	32
51	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/AND	Logic: input port 1 <b>false</b>	32
52	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/AND	Logic: input port 2 <b>true</b>	32
53	Condition	Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/AND	Logic: input port 2 <b>false</b>	32
55	Decision	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem	enable logical value <b>true</b>	32
56	Decision	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem	enable logical value <b>false</b>	32
60	Decision	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem	enable logical value <b>true</b>	32
61	Decision	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem	enable logical value <b>false</b>	32
62	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator	RelationalOperator: input1 == input2 <b>true</b>	32
63	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator	RelationalOperator: input1 == input2 <b>false</b>	32
67	Condition	Eas_Subsystem/DPF_Subsystem/Service_Regeneration/Relational_Operator3	RelationalOperator: input1 >= input2 <b>true</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
68	Condition	Eas_Subsystem/DPF_Subsystem/Service_Regeneration/Relational_Operator3	RelationalOperator: input1 >= input2 <b>false</b>	32
71	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator1	RelationalOperator: input1 == input2 <b>true</b>	32
72	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator1	RelationalOperator: input1 == input2 <b>false</b>	32
79	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator2	RelationalOperator: input1 == input2 <b>true</b>	32
80	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator2	RelationalOperator: input1 == input2 <b>false</b>	32
85	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND	Logic: input port 1 <b>true</b>	32
86	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND	Logic: input port 1 <b>false</b>	32
87	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND	Logic: input port 2 <b>true</b>	32
88	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND	Logic: input port 2 <b>false</b>	32
89	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND	Logic: input port 3 <b>true</b>	32
90	Condition	Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND	Logic: input port 3 <b>false</b>	32
92	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Relational_Operator1	RelationalOperator: input1 >= input2 <b>true</b>	32
93	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Relational_Operator1	RelationalOperator: input1 >= input2 <b>false</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
95	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator	RelationalOperator: input1 >= input2 <b>true</b>	32
96	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator	RelationalOperator: input1 >= input2 <b>false</b>	32
98	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Switch	logical trigger input <b>false</b> (output is from 3rd input port)	32
99	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Switch	logical trigger input <b>true</b> (output is from 1st input port)	32
101	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator1	RelationalOperator: input1 <= input2 <b>true</b>	32
102	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator1	RelationalOperator: input1 <= input2 <b>false</b>	32
105	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND	Logic: input port 1 <b>true</b>	32
106	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND	Logic: input port 1 <b>false</b>	32
107	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND	Logic: input port 2 <b>true</b>	32
108	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND	Logic: input port 2 <b>false</b>	32
112	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator2	RelationalOperator: input1 >= input2 <b>true</b>	32
113	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator2	RelationalOperator: input1 >= input2 <b>false</b>	32
115	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Relational_Operator	RelationalOperator: input1 >= input2 <b>true</b>	32
116	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Re-	RelationalOperator: input1 >= input2 <b>false</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
		generation_Parameter/Scr_temp_indication/Relational_Operator		
118	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Switch	logical trigger input <b>false</b> (output is from 3rd input port)	32
119	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Switch	logical trigger input <b>true</b> (output is from 1st input port)	32
121	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator3	RelationalOperator: input1 <= input2 <b>true</b>	32
122	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator3	RelationalOperator: input1 <= input2 <b>false</b>	32
124	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND1	Logic: input port 1 <b>true</b>	32
125	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND1	Logic: input port 1 <b>false</b>	32
126	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND1	Logic: input port 2 <b>true</b>	32
127	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND1	Logic: input port 2 <b>false</b>	32
129	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND2	Logic: input port 1 <b>true</b>	32
130	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND2	Logic: input port 1 <b>false</b>	32
131	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND2	Logic: input port 2 <b>true</b>	32
132	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND2	Logic: input port 2 <b>false</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
134	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator4	RelationalOperator: input1 >= input2 <b>true</b>	32
135	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator4	RelationalOperator: input1 >= input2 <b>false</b>	32
139	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator5	RelationalOperator: input1 <= input2 <b>true</b>	32
140	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator5	RelationalOperator: input1 <= input2 <b>false</b>	32
142	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Relational_Operator	RelationalOperator: input1 >= input2 <b>true</b>	32
143	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Relational_Operator	RelationalOperator: input1 >= input2 <b>false</b>	32
145	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND2	Logic: input port 1 <b>true</b>	32
146	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND2	Logic: input port 1 <b>false</b>	32
147	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND2	Logic: input port 2 <b>true</b>	32
148	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND2	Logic: input port 2 <b>false</b>	32
150	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Relational_Operator1	RelationalOperator: input1 <= input2 <b>true</b>	32
151	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Relational_Operator1	RelationalOperator: input1 <= input2 <b>false</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
153	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator6	RelationalOperator: input1 >= input2 <b>true</b>	32
154	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator6	RelationalOperator: input1 >= input2 <b>false</b>	32
156	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/AND	Logic: input port 1 <b>true</b>	32
157	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/AND	Logic: input port 1 <b>false</b>	32
158	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/AND	Logic: input port 2 <b>true</b>	32
159	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/AND	Logic: input port 2 <b>false</b>	32
161	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND	Logic: input port 1 <b>true</b>	32
162	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND	Logic: input port 1 <b>false</b>	32
163	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND	Logic: input port 2 <b>true</b>	32
164	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND	Logic: input port 2 <b>false</b>	32
166	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator7	RelationalOperator: input1 <= input2 <b>true</b>	32
167	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator7	RelationalOperator: input1 <= input2 <b>false</b>	32
169	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND3	Logic: input port 1 <b>true</b>	32

Design Error Detection Objectives Status

#	Type	Model Item	Description	Analysis Time (sec)
170	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND3	Logic: input port 1 <b>false</b>	32
171	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND3	Logic: input port 2 <b>true</b>	32
172	Condition	Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND3	Logic: input port 2 <b>false</b>	32
174	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System	enable logical value <b>true</b>	32
175	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System	enable logical value <b>false</b>	32
180	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Level2/Relational_Operator1	RelationalOperator: input1 == input2 <b>true</b>	32
181	Condition	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Level2/Relational_Operator1	RelationalOperator: input1 == input2 <b>false</b>	32
184	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Level2/Switch2	logical trigger input <b>false</b> <b>(output is from 3rd input port)</b>	32
185	Decision	Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Level2/Switch2	logical trigger input <b>true</b> <b>(output is from 1st input port)</b>	32

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# Chapter 4. Derived Ranges

Signal	Derived Ranges
Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Constant- Output 1	80
Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Constant1- Output 1	200
Eas_Subsystem/DPF_Subsystem/Service_Regeneration/Constant3- Output 1	95
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Constant- Output 1	80
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Constant1- Output 1	55
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Constant2- Output 1	1500
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Constant3- Output 1	80
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Constant4- Output 1	250
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator2- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND1- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator3- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/Relational_Operator4- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND2- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND3- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Auto_Regeneration/AND- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Relational_Operator- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Regn_Display_Subsystem/AND- Output 1	[F..T]



Derived Ranges

Signal	Derived Ranges
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Constant- Output 1	F
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Constant1- Output 1	F
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Constant2- Output 1	F
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant- Output 1	10
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant1- Output 1	35
Eas_Subsystem/DPF_Subsystem/Service_Regeneration/Relational_Operator3- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant2- Output 1	190
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant3- Output 1	215
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Constant- Output 1	20
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant4- Output 1	370
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Constant1- Output 1	F
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant5- Output 1	395
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/Relational_Operator2- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Constant2- Output 1	T
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant6- Output 1	550
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Constant7- Output 1	575
Eas_Subsystem/DPF_Subsystem/Manual_Regn_Subsystem/AND- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator- Output 1	[F..T]

Derived Ranges

Signal	Derived Ranges
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Level_indication/Switch- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Constant1- Output 1	T
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND-Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Constant2- Output 1	F
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/scr_temp- Output 1	200
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator2- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Relational_Operator- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Scr_temp_indication/Switch- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator3- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND1-Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND2- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator4- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Constant- Output 1	31.8
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Constant1- Output 1	33.2
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator5- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Relational_Operator- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND2-Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator6- Output 1	[F..T]

Derived Ranges

Signal	Derived Ranges
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/Adblue_Quality_indication/AND- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Scr_Regeneration_Parameter/AND- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/Relational_Operator7- Output 1	[F..T]
Eas_Subsystem/DPF_Subsystem/Post_Regn_Subsystem/AND3- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Constant- Output 1	2
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Level2/Tank_Condition- Output 1	F
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Constant1- Output 1	6
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Constant2- Output 1	1.13e-06
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Level2/Relational_Operator1- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Constant3- Output 1	0.099
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Gain- Output 1	6e+05
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Gain1- Output 1	3.39e-06
Auto_Regeneration_ON- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Product- Output 1	1.2e+06
Press_Regeneration_Button- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Square_Root- Output 1	1095.4
Manual_Regeneration_Start- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Product1- Output 1	0.0037136
Post_Injector2- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Product2- Output 1	[0..243.37]
Post_Injector1- Output 1	[F..T]
Eas_Subsystem/SCR_Regeneration_Subsystem/Adblue_Injection_System/Divide- Output 1	[0..2458.3]
Post_Injector4- Output 1	[F..T]
Post_Injector3- Output 1	[F..T]
Visit_Workshop_Immediately- Output 1	[F..T]

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## Derived Ranges

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Signal	Derived Ranges
Adblue_Injection_Time- Output 1	[0..2458.3]