ESI-Check Report

TUC_FARSIDE_FORMAN_V2020.01_SledBuck.pc

10.12.2020

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Content

- Overview
- Include Control
- Inputchecker
- Mass Report
- OUT File Warnings
- Contacts

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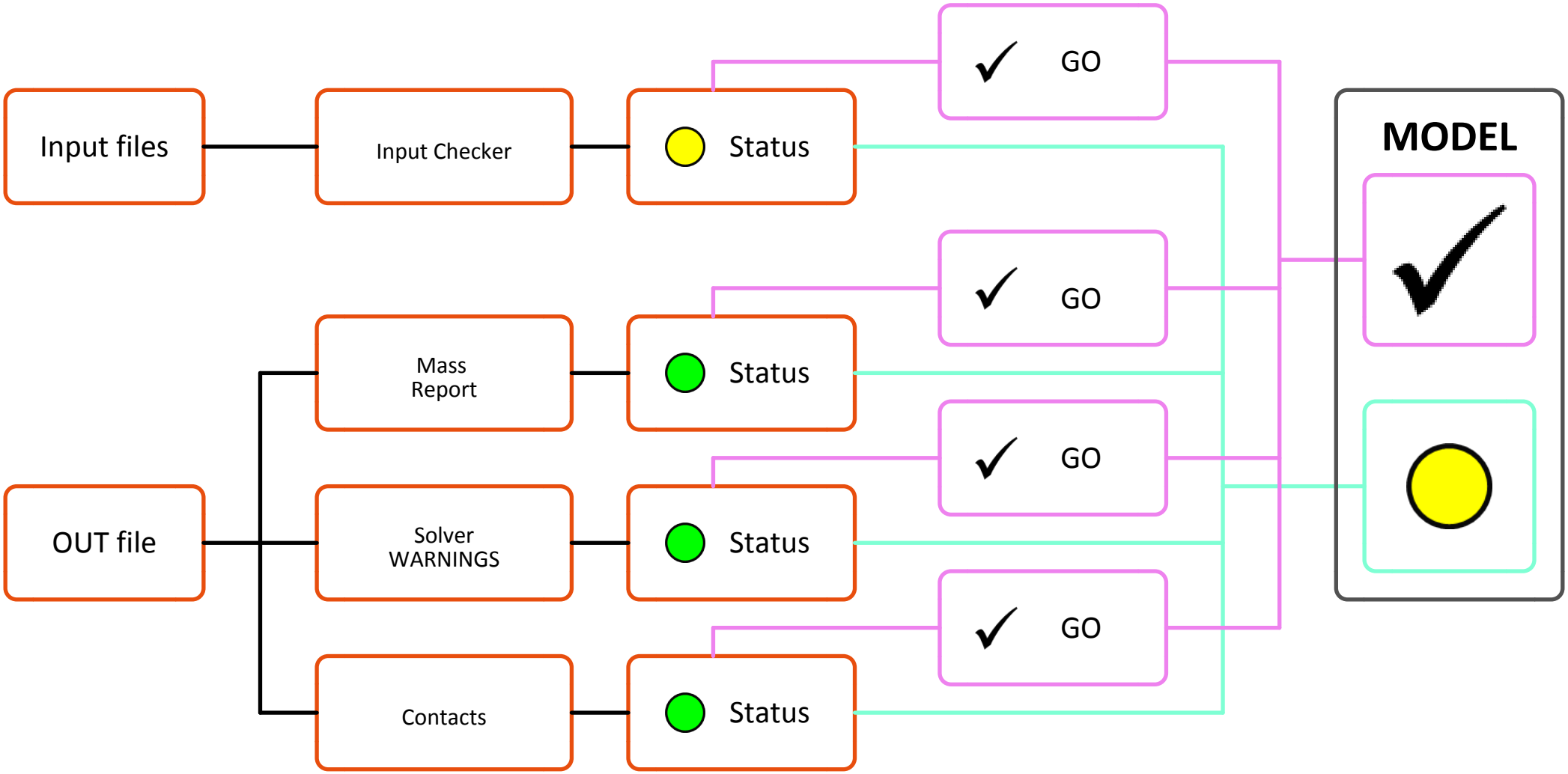
Configuration overview

Tool	Version	Options
ESI-Check	2019.2.2	
Solver	2019.0.3	
Python	3.3.3	
Inputchecker	v2019.1.2	-n -o -x -V 2019
Perl	5.16.3	
vpswarn	0.5.4	

Evaluation scheme - overall status



Model: TUC_FARSIDE_FORMAN_V2020.01_SledBuck.pc

Comparison with basis run

Group	Criterion	Basis	Current
Number of Inputchecker messages	NOGOs	-	0
	ERRORs	-	0
	WARNINGs	-	8
	INFOs	-	9
Number of Solver Warnings	NOGOs	-	0
	Serious	-	0
	Unimportant	-	2604
Number of Contacts with Penetration	IRMV 2	-	0
	IRMV 2 NOGO	-	0
	IRMV 0	-	0
	IRMV 0 NOGO	-	0
Number of Contacts with Intersections	Intersections	-	0
	Intersections NOGO	-	0
Mass Report	Max. Init Mass Scale ratio	-	1.6
	Max. NSMass Scale ratio	-	0

Basis run filename: *not found*

Current run filename: *TUC_FARSIDE_FORMAN_V2020.01_SledBuck.pc*

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Include Control

- See table: TUC_FARSIDE_....._Include_Table.pdf

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Inputchecker
ERROR

	ERROR section - total number of errors: 0		
NOGO	No.	Key	Description

no ERROR in the model

Inputchecker
WARNING

WARNING section - total number of warnings: 8		
No.	**Key**	**Description**
3	THLO	Check for THLOC
2	DENS	Check if the MATER density is a physically reasonable (10 < d < 23000 kg/m3)
1	HCNT	Check the CNTAC thickness (0.0003 m < hcont < 0.003 m)
1	IAXIS	Check, if the axes definition option is set to 0 or 2.
1	NLOA	Check the load FUNCTions of MATER 22X for plateau slopes < 1e-10 which may introduce scatter

Inputchecker

INFO

INFO section - total number of infos: 9		
No.	**Key**	**Description**
4	DATA	Activate SHELLCHECK and SOLIDCHECK
3	IREM	Check if the initial penetration flag is set to 2 in CNTAC
2	TETR	Check the compatibility of TETRA/TETR4 elements with the material formulation

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Mass
Top 20

INITIAL ELEMENT MASS TOP 20	
PART ID	Initial Mass [kg]
10000001	41.56
10000054	10.35
10000055	9.35
10000057	9.35
10000009	6.59
10000010	6.59
10000050	5.76
10000051	5.76
10000016	5.25
10000084	4.37
10000080	4.17
10000052	3.95
10000053	3.95
10000082	2.71
10000061	2.68
10000011	2.64
10000019	2.47
10000024	2.47
10000058	2.21
10000021	1.73

Initial Mass Scale

Parts with mass > 2 kg

GO

Slide status

INITIAL MASS SCALE for parts with mass > 2 kg				
NOGO	PART ID	Init Mass Scale ratio	Initial mass [kg]	Mass after Init Mass Sc. [kg]
	10000016	1.1	5.252	5.545
	10000082	1.0	2.705	2.793
	10000057	1.0	9.353	9.389
	10000055	1.0	9.353	9.388

Non Structural Mass

Parts with mass > 2 kg

not present in the model

Initial Mass Scale

For all parts

INITIAL MASS SCALE for all parts				
NOGO	PART ID	Init Mass Scale ratio	Initial mass [kg]	Mass after Init Mass Sc. [kg]
	10000056	1.6	0.47	0.76
	10000017	1.5	0.305	0.456
	10000016	1.1	5.252	5.545
	10000082	1.0	2.705	2.793
	10000057	1.0	9.353	9.389
	10000055	1.0	9.353	9.388

Non Structural Mass
For all parts

not present in the model

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OUT File Warnings

NOGO

NOGO	No.	NOGO warnings - total number of messages: 0

no WARNING of this type in the OUT File

OUT File Warnings

Serious

No.	Serious warnings - total number of messages: 0

no WARNING of this type in the OUT File

OUT File Warnings

Unimportant

No.	Unimportant warnings - total number of messages: 2604
2469	TETRA xxx xxx HAS POOR INTERNAL ANGLE xxx.xxx ON FACE WITH NODE IDS: xxx
112	PENTA xxx xxx HAS POOR INTERNAL ANGLE xxx.xxx ON FACE WITH NODE IDS: xxx
14	HEXA xxx xxx HAS POOR INTERNAL ANGLE xxx.xxx ON FACE WITH NODE IDS: xxx
3	LOAD CURVE xxx IS NOT USED.
2	PART ID xxx IGNORING ELEMENT FORMULATION FLAG FOR TYPE xxx
2	PART ID xxx UNLOADING PARAMETERS ARE NOT DEFINED. THE HYSTERESIS MODEL IS NOT ACTIVATED
1	ACCELERATION FIELD ID xxx, xxx RB TYPE xxx OR MBSYS RB TYPE xxx COG NODES HAVE BEEN REMOVED
1	DEGENERATED HEXA ELEMENTS HAVE BEEN AUTOMATICALLY

OUT File Warnings

Unknown

No.	Unknown warnings - total number of messages: 0

no WARNING of this type in the OUT File

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Contacts
Statistics

NOGO	Contact Type	Sum	C10	C34	C33	C43	C36	C46	C37	C44	C54
	Number	4	0	0	2	1	1	0	0	0	0
	Number of contacts with IRMV = 4	0	-	0	0	0	0	0	0	0	0
	Number of contacts with IRMV = 3	0	-	-	-	-	-	-	-	0	-
	Number of contacts with IRMV = 2	3	-	0	1	1	1	0	0	0	0
	Number of contacts with IRMV = 1	0	-	0	0	-	0	-	-	0	0
	Number of contacts with IRMV = 0	1	-	0	1	0	0	0	0	0	0

Contacts
Penetrations

NOGO	Penetrations		Criteria description	Number (Total / NOGO)	Value [mm]
	Penetrations removed by thickness scale	IRMV 2	minimum scaled thickness	0 / 0	1.0
			max. penetration depth	0 / 0	0.0
	Penetrations removed by coordinate modification	IRMV 1	not allowed	0	---
	Penetrations (without IRMV)	IRMV 0	max. penetration depth	0 / 0	0.0

Contacts
Intersections

no intersection detected in the contacts