Moris Parameter

Documentation

Everyone

November 3, 2023

Contents

0.0.1	HMR Parameter-List																									3
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Todo list

What does it do? What does this mean? To do what?? What is that?		5
adaptive_refinement_level		(0.0.1.1)
Default 0	Туре -	
See also –	Type – Usage –	
- no description -		
additional_lagrange_refinement		(0.0.1.2)
Default 0	Туре -	
See also –	Type – Usage –	
- no description -		
basis_function_vtk_file		(0.0.1.3)
Default ""	Туре -	
See also –	Usage -	
- no description -		

bspline_orders (0.0.1.4)"1" Default Type vector See also bspline_pattern Usage once Orders of the B-Spline meshes. If you use multiple meshes, separate the orders with a comma. E.g. "2,1" for a quadratic and a linear mesh. Use bspline_pattern in this case to specify the pattern for each mesh. bspline_pattern (0.0.1.5)Default Type vector Usage See also bspline_orders once Specify the patterns for the B-Spline meshes. If you use multiple meshes, separate the patterns with a comma. Use in conjunction with bspline_orders. domain_dimensions (0.0.1.6)Default "1, 1" See also Usage Width, height and depth of domain (without aura) domain offset (0.0.1.7)Default "0, 0" See also Usage

Offset from the origin. For a 3D problem, use "0, 0, 0".

domain_sidesets (0.0.1.8)

Default "" Type See also - Usage -

Set all side-set names that should be built for the domain. Numbering of side-sets follows the convention of [1]. To obtain all side-sets, use "1, 2, 3, 4" in a 2D problem and "1, 2, 3, 4, 5, 6" in a 3D problem.

initial	_refinement			(0.0.1.9)
Default	"0"	Туре	scalar	
See also	initial_refinement_pattern	Usage	once	
Initial re	finement level.			
initial	_refinement_pattern			(0.0.1.10)
Default	"0"	Туре	scalar	
See also	initial_refinement	Usage	once	
What do	oes it do?			
lagrang	ge_input_meshes			(0.0.1.11)
Default	пп	Туре	_	
See also	-	Type Usage	_	
- no desc	ription -			
lagrang	ge_orders			(0.0.1.12)
Default	"1"	Type	scalar	
See also	-	Usage		
Order of etc.	Lagrange elements. Use "1" for linear eleme	nts, "2" f	or quadration	c elements,
lagrang	ge_output_mesh_names			(0.0.1.13)
Default	ни	Туре	vector	
See also	-	Usage		
	Meshes that are used as output meshes. Thi	s is usual	lly set to "0'	'.
What do	oes this mean?			
lagrang	ge_output_meshes			(0.0.1.14)
Default	пп	Туре	_	
See also	-	Usage	_	
- no desc	ription -			

lagrang	e_pattern			(0.0.1.15)
Default	"0"	Туре	_	
See also	-	Type Usage	_	
Set the La	grange pattern (see ??).			
lagrang	e_to_bspline			(0.0.1.16)
Default	"0"	Type	-	
See also	-	Type Usage	_	
	which B-Spline mesh is associated with which B-Spline meshes, separate the indices with a co	_	_	•
To do wl	nat??			
max_ref	inement_level			(0.0.1.17)
Default	-1	Type	-	
See also	-	Type Usage	-	
- no descr	iption -			
number_	of_elements_per_dimension			(0.0.1.18)
Default	"2, 2"	Type	vector	
See also	-	Usage	once	
	of elements per direction in overall mesh, we length of this vector.	vithout a	ura 2D or 3I) is deter-
process	or_decomposition_method			(0.0.1.19)
Default	1	Type	-	
See also	-	Usage	-	
- no descr	iption -			

process	or_dimensions			(0.0.1.20)
Default	"2, 2"	Туре	-	
See also	-	Type Usage	-	
- no descr	iption -			
refinem	ent_buffer			(0.0.1.21)
Default	0	Туре	scalar	
See also	staircase_buffer	Usage	once	
	e refinement buffer.			
What is	that?			
refinem	ent_function_names			(0.0.1.22)
Default	""	Type Usage	-	
See also	-	Usage	-	
- no descr	ription -			
renumbe	r_lagrange_nodes			(0.0.1.23)
Default	0	Туре	_	
See also	-	Type Usage	-	
- no descr	iption -			
restart	_refinement_pattern_file			(0.0.1.24)
Default	nn	Туре	_	
See also	-	Usage	-	
- no descr	ription -			
severit	y_level			(0.0.1.25)
Default	0	Type	scalar	
See also	-	Usage	once	
Set the se	verity level for the Moris output.			

stairca	se_buffer			(0.0.1.26)
Default	Θ	Туре	scalar	
See also	refinement_buffer	Usage	once	
	e staircase buffer. Often set to the same value	e as refin	ement_buff	er.
What is	that?			
truncat	e_bsplines			(0.0.1.27)
Default	1	Туре	boolean	
See also	-	Usage	once	
Whether	to truncate the B-Spline meshes or not.			
union_p	attern			(0.0.1.28
Default	6	Туре	-	
See also	-	Usage	_	
- no desc	ription -			
use_adv	anced_T_matrix_scheme			(0.0.1.29
Default	0	Туре	-	
See also	-	Usage	-	
- no desc	ription -			
use_mul	tigrid			(0.0.1.30)
Default	Θ	Туре	boolean	
See also	_	Usage	once	
Boolean	lag for multigrid.			
What is	that?			

use_number_aura								
Default	1	Type	boolean					
See also	-	Usage	once					
	lag for numbering of aura.							
What is	that?							
use_ref	ine_low_level_elements			(0.0.1.32)				
Default	false	Type Usage	-					
See also	-	Usage	-					
- no desci	ription -							
use_ref	inement_interrelation			(0.0.1.33)				
Default	0	Type Usage	-					
See also	-	Usage	-					
- no desci	ription -							
working	_pattern			(0.0.1.34)				
Default	7	Type	_					
See also	-	Type Usage	-					
- no desci	iption -							
write_b	ackground_mesh			(0.0.1.35)				
Default	ш	Type	-					
See also	-	Usage	-					
- no desci	ription -							
write_l	agrange_output_mesh			(0.0.1.36)				
Default	nn	Type	-					
See also	-	Type Usage	-					
- no desci	iption -							

write_l		(0.0.1.37)		
Default	пп	Type Usage	-	
See also	-	Usage	-	
- no desci	ription -			
write_r		(0.0.1.38)		
Default	false	Type	_	
See also	-	Type Usage	_	
- no desci	ription -			

Bibliography

[1] Exodus: Exodus Element Types. URL: https://sandialabs.github.io/seacas-docs/html/element_types.html (visited on 11/03/2023).

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