

UF_SF_0D_density_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_0D_density_type_t`
- `UF_SF_0D_density_type_p_t`

Overview

The 0d mesher element density.

Data Members

UF_SF_0D_EDGE_DENSITY_SIZE

Edge density given as size of the elements.

UF_SF_0D_EDGE_DENSITY_NUMBER

Edge density given as number of the elements.

UF_SF_0D_EDGE_DENSITY_SMART = 4

UF_SF_0D_element_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_0D_element_type_t`
- `UF_SF_0D_element_type_p_t`

Overview

The 0d mesher element types.

Data Members

UF_SF_0D_CONMASS = (int)UF_SF_CMASS

0D element type - concentrated mass.

UF_SF_1D_density_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_1D_density_type_t`
- `UF_SF_1D_density_type_p_t`

Overview

The 1d mesher element density.

Data Members

UF_SF_1D_EDGE_DENSITY_SIZE

Edge density given as a size of the elements.

UF_SF_1D_EDGE_DENSITY_NUMBER

Edge density given as number of the elements.

UF_SF_1D_EDGE_DENSITY_SMART = 4

UF_SF_1D_element_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_1D_element_type_t`
- `UF_SF_1D_element_type_p_t`

Overview

The 1d mesher element types.

Data Members

UF_SF_1D_SPRING_TYPE = (int)UF_SF_SPRING

Spring elements.

UF_SF_1D_BAR_TYPE = (int)UF_SF_BAR

Bar elements.

UF_SF_1D_BEAM_TYPE = (int)UF_SF_BEAM

Beam elements.

UF_SF_1D_ROD_TYPE = (int)UF_SF_ROD

Rod elements.

UF_SF_1D_RIGID_TYPE = (int)UF_SF_RBE2

Rigid link elements.

UF_SF_assembly_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_assembly_type_t`
- `UF_SF_assembly_type_p_t`

Overview

Assembly Mesh Type

Data Members

UF_SF_NOT_SUPPORT_ASSEM_TYPE = 0

UF_SF_ASSEM_BY_GLUE

UF_SF_ASSEM_BY_SLIDE_CONTACT

UF_SF_ASSEM_BY_GAP_CONTACT

UF_SF_ASSEM_FREE

UF_SF_atm_edge_shape_types_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_atm_edge_shape_types_t`

Overview

Aries Tet Mesher edge shapes

Data Members

UF_SF_ATM_LINEAR = 0

Type of element is linear.

UF_SF_ATM_CURVED

Type of element is curved.

UF_SF_ATM_MIXED

Both curved and linear elements can form.

UF_SF_atm_element_types_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_atm_element_types_t`

Overview

Element types supported by Aries Tet Mesher

Data Members

UF_SF_ATM_SYSTEM_DEFAULT_TYPE = 0

Element will be system default, either tet4 or tet10, depending on the environment.

UF_SF_ATM_TETRA

Element will be tetrahedral, with 4 nodes.

UF_SF_ATM_TETRA_10

Element will be tetrahedral, with 10 nodes.

UF_SF_bc_class_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_bc_class_t`
- `UF_SF_bc_class_p_t`

Overview

The BC functions class parameter.

Data Members**UF_SF_BC_ERROR_CLASS = -1**

To indicate error

UF_SF_BC_NODE_ELEMENT_CLASS = 1

BC applied on a node.

UF_SF_BC_EDGE_ELEMENT_CLASS = 2

BC applied on an edge.

UF_SF_BC_FACE_CLASS = 3

BC applied on a face.

UF_SF_BC_CURVE_CLASS = 4

BC applied on a curve.

UF_SF_bc_mode_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_bc_mode_t`
- `UF_SF_bc_mode_p_t`

Overview

The BC functions mode parameter.

Data Members

UF_SF_BC_CONSTRAINT = 1

Both linear displacement and rotation are available.

UF_SF_BC_DISPLACEMENT = 2

Only displacement is available, rotation is free.

UF_SF_BC_ROTATION = 3

Only rotation is available, displacement is free.

UF_SF_BC_TEMPERATURE = 4

Temperature BC is available.

UF_SF_BC_CONVECTION_COEFFICIENT = 5

Convection coefficient BC is available.

UF_SF_BC_UNKNOWN_MODE = -99999

Unknown BC mode type

UF_SF_clip_plane_t ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_clip_plane_t_p`

Data Members

UF_SF_CLIP_ABS_XY

UF_SF_CLIP_ABS_YZ

UF_SF_CLIP_ABS_ZX

UF_SF_CLIP_WCS_XY

UF_SF_CLIP_WCS_YZ

UF_SF_CLIP_WCS_ZX

UF_SF_CLIP_WCS_CYL_RT

UF_SF_CLIP_WCS_CYL_TZ

UF_SF_CLIP_WCS_SPH_TP

UF_SF_clip_side_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_clip_side_t_p`

Data Members

`UF_SF_CLIP_POSITIVE`

`UF_SF_CLIP_NEGATIVE`

`UF_SF_CLIP_BOTH`

UF_SF_dist_type_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Overview

Distribution type

Data Members

`UF_SF_SINUSOIDAL = 0`

`UF_SF_PARABOLIC`

UF_SF_dur_event_mode_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_dur_event_mode_t`
- `UF_SF_dur_event_mode_p_t`

Overview

The Durability Event mode parameter.

Data Members

UF_SF_DUR_EVENT_STATIC = 1

Currently we only have Static Durability Events

UF_SF_dursol_design_life_criterion_t ([view source](#))

Defined in: `uf_sf_enums.h`

Data Members

UF_SF_INFINITY_LIFE = 0

UF_SF_CYCLES_TO_FAILURE = 1

UF_SF_dursol_fatigue_life_criterion_t ([view source](#))

Defined in: `uf_sf_enums.h`

Data Members

UF_SF_SMITH_WATSON_TOPPER = 0

UF_SF_STRAIN_LIFE_MAX_PRINCIPLE = 1

UF_SF_STRAIN_LIFE_MAX_SHEAR = 2

UF_SF_STRESS_LIFE = 3

UF_SF_dursol_stress_criterion_t ([view source](#))

Defined in: `uf_sf_enums.h`

Overview

Durability Solution type parameter.

Data Members

UF_SF_ULTIMATE_STRENGTH = 0

UF_SF_YIELD_STRENGTH = 1

UF_SF_dursol_stress_type_t ([view source](#))

Defined in: `uf_sf_enums.h`

Data Members

UF_SF_VON_MISES = 0

UF_SF_TRESCA = 1

UF_SF_MAXIMUM_PRINCIPLE = 2

UF_SF_MINIMUM_PRINCIPLE = 3

UF_SF_edge_density_type_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_edge_density_type_t`
- `UF_SF_edge_density_type_p_t`

Data Members

UF_SF_EDGE_DENSITY_SIZE
Edge density defined by elm size

UF_SF_EDGE_DENSITY_NUMBER
Edge density defined by number of elms.

UF_SF_EDGE_DENSITY_SMART = 4
Edge density defined by smart option.

UF_SF_NOT_EDGE_DENSITY_DEFINED
Edge density not defined.

UF_SF_edge_matching_type_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_edge_matching_type_t`
- `UF_SF_edge_matching_type_p_t`

Data Members

`UF_SF_EDGE_MATCHING_TYPE_ND`

`UF_SF_EDGE_MATCHING_BY_LOCATION`

`UF_SF_EDGE_MATCHING_BY_ESIZE`

`UF_SF_EDGE_MATCHING_BY_COLLAPSE`

`UF_SF_EDGE_MATCHING_MM_GLUE`

`UF_SF_EDGE_MATCHING_MM_FREE`

`UF_SF_EDGE_MATCHING_ANY`

`UF_SF_element_type_e` ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_element_type_t`
- `UF_SF_element_type_p_t`

Data Members

`UF_SF_UNDEFINED = 0`

Generic undefined type.

`UF_SF_CMASS = 1`

Concentrated mass element.

`UF_SF_BAR = 2`

Bar element.

`UF_SF_BEAM = 3`

Beam element.

`UF_SF_ROD = 4`

Rod element.

`UF_SF_RBE2 = 5`

Rigid link element.

UF_SF_SPRING = 6

Spring element.

UF_SF_MASS = 7

Distributed mass element.

UF_SF_HBDY = 8

Heat body element.

UF_SF_QUAD4 = 9

Quadrilateral element with 4 nodes.

UF_SF_TRIA3 = 10

Triangular element with 3 nodes.

UF_SF_QUAD8 = 11

Quadrilateral element with 8 nodes.

UF_SF_TRIA6 = 12

Triangular element with 6 nodes.

UF_SF_TET4 = 13

Tetrahedral element with 4 nodes.

UF_SF_TET10 = 14

Tetrahedral element with 10 nodes.

UF_SF_1D_CONTACT=15

1D contact elements between 2 bodies.

UF_SF_HEX8 = 16

Hexahedral element with 8 nodes.

UF_SF_HEX20 = 17

Hexahedral element with 20 nodes.

UF_SF_WDG6 = 18

Wedge element with 6 nodes.

UF_SF_WDG15 = 19

Wedge element with 15 nodes.

UF_SF_2D_CONTACT = 20

2D Contact elements between 2 faces

UF_SF_WELD = 21

weld elements

UF_SF_EF_CONN = 22

Edge-Face connection element

UF_SF_MM_FREE = 23

Not an element type but useful as connection.

UF_SF_MM_GLUE = 24

Not an element type but useful as connection.

UF_SF_RBE3 = 25

rbe3 element with 1 core node (first node) and multiple leg nodes.

UF_SF_PYR5 = 26

Pyramid element with 5 nodes.

UF_SF_PYR9 = 27

Pyramid element with 9 nodes.

UF_SF_PYR13 = 28

Pyramid element with 13 nodes.

UF_SF_1D_NG = 29

1D Node to Ground elements with 1 node.

UF_SF_1D_PLOTEL = 30

1D plotel element with 2 nodes.

UF_SF_1D_MASS = 31

1D mass element with 2 nodes.

UF_SF_PYR_MIXED_ORDER = 32

Pyramid element mixed order.

UF_SF_TET_MIXED_ORDER = 33

Tetrahedral element mixed order.

UF_SF_1D_BEARING = 34

UF_SF_HEXCOHES8 = 35

cohesive element with 8 nodes.

UF_SF_HEXCOHES20 = 36

cohesive element with 20 nodes.

UF_SF_WDGCOHES6 = 37

cohesive element with 6 nodes.

UF_SF_WDGCOHES15 = 38

cohesive element with 15 nodes.

UF_SF_TOTAL_COUNT = 39

This last member represents the total number of members in this enum

UF_SF_elm_adaptivity_type_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_elm_adaptivity_type_t`
- `UF_SF_elm_adaptivity_type_p_t`

Data Members

UF_SF_ELEMENT_ADAPT_HELMS = (int)UF_SF_MESH_RECIPES_ADAPT_HELMS

Adaptivity of elements is H-type.

UF_SF_ELEMENT_ADAPT_PELMS = (int)UF_SF_MESH_RECIPES_ADAPT_PELMS

Adaptivity of elements is P-type.

UF_SF_elm_dimension_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_elm_dimension_type_t`
- `UF_SF_elm_dimension_type_p_t`

Data Members

UF_SF_ELEMENT_POINT = (int)UF_SF_DIMENSION_0D

Element type is point - CMASS
or MASS.

UF_SF_ELEMENT_BEAM = (int)UF_SF_DIMENSION_1D

Element type is beam - Bar,
beam, rods, rigid links,
springs and contact elements.

UF_SF_ELEMENT_SHELL = (int)UF_SF_DIMENSION_2D

Element type is shell - quad4,
quad8, tri3, tri6.

UF_SF_ELEMENT_SOLID = (int)UF_SF_DIMENSION_3D

Element type is solid - tet4,
tet10.

UF_SF_ELEMENT_ALL

Element of any of the 4 above
types.

UF_SF_face_subdiv_status_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_face_subdiv_status_t`
- `UF_SF_face_subdiv_status_p_t`

Data Members

UF_SF_IDENTICAL_FACES_EQ_EDGES

Both faces identical with eq. num of edges

UF_SF_IDENTICAL_FACES_UNEQ_EDGES

Both faces identical with uneq. num of edges

UF_SF_NOT_IDENTICAL

Both faces are not identical

UF_SF_OVERLAPPING_FACES

Both faces overlapping

UF_SF_SEPARATE_FACES

Both faces are separate

UF_SF_fem_coord_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_fem_coord_type_t`
- `UF_SF_fem_coord_type_p_t`

Overview

Coordinate system type.

Data Members

`UF_SF_RECT_COORD`

UF_SF_fem_value_type_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Overview

FEM Property type parameter.

Data Members

`UF_SF_FEM_VALUE_NIL = UF_SF_LANG_NIL_VAL_TYPE`

`UF_SF_FEM_VALUE_INT = UF_SF_LANG_INT_VAL_TYPE`

`UF_SF_FEM_VALUE_SCALAR = UF_SF_LANG_SCALAR_VAL_TYPE`

`UF_SF_FEM_VALUE_TEXT = UF_SF_LANG_TEXT_VAL_TYPE`

`UF_SF_FEM_VALUE_ENUM = UF_SF_LANG_ENUM_VAL_TYPE`

`UF_SF_FEM_VALUE_COORD = UF_SF_LANG_COORD_VAL_TYPE`

`UF_SF_FEM_VALUE_MATERIAL = UF_SF_LANG_MATERIAL_VAL_TYPE`

`UF_SF_FEM_VALUE_SECTION = UF_SF_LANG_SECTION_VAL_TYPE`

`UF_SF_FEM_VALUE_VECTOR = UF_SF_LANG_VECTOR_VAL_TYPE`

UF_SF_FEM_VALUE_TABLE = UF_SF_LANG_TABLE_VAL_TYPE

UF_SF_FEM_VALUE_LOAD = UF_SF_LANG_LOAD_VAL_TYPE

UF_SF_FEM_VALUE_BNDCOND = UF_SF_LANG_BNDCOND_VAL_TYPE

UF_SF_FEM_VALUE_BOOL = UF_SF_LANG_BOOL_VAL_TYPE

UF_SF_FEM_VALUE_MULTI_STRING = UF_SF_LANG_MULTI_STRING_VAL_TYPE

UF_SF_FEM_VALUE_MULTI_STRING_ITI = UF_SF_LANG_MULTI_STRING_ITI_VAL_TYPE

UF_SF_FEM_VALUE_FILENAME_VAL_TYPE = UF_SF_LANG_FILENAME_VAL_TYPE

UF_SF_FEM_VALUE_DIRPATH_VAL_TYPE = UF_SF_LANG_DIRPATH_VAL_TYPE

UF_SF_FEM_VALUE_SSMO_VAL_TYPE = UF_SF_LANG_SSMO_VAL_TYPE

UF_SF_FEM_VALUE_PPT_VAL_TYPE = UF_SF_LANG_PPT_VAL_TYPE

UF_SF_FEM_VALUE_PLYMAT_VAL_TYPE = UF_SF_LANG_PLYMAT_VAL_TYPE

UF_SF_FEM_VALUE_FIELD_VAL_TYPE = UF_SF_LANG_FIELD_VAL_TYPE

UF_SF_FEM_VALUE_AXIS_VAL_TYPE = UF_SF_LANG_AXIS_VAL_TYPE

UF_SF_FEM_VALUE_DOE_VAL_TYPE = UF_SF_LANG_DOE_VAL_TYPE

UF_SF_FEM_VALUE_POINT_VAL_TYPE = UF_SF_LANG_POINT_VAL_TYPE

UF_SF_FEM_VALUE_EDGES_ON_FACE = UF_SF_LANG_EDGES_ON_FACE_VAL_TYPE

UF_SF_FEM_VALUE_SCALAR_ARRAY = UF_SF_LANG_SCALAR_ARRAY_VAL_TYPE

UF_SF_FEM_VALUE_ACTION = UF_SF_LANG_ACTION_VAL_TYPE

UF_SF_FEM_VALUE_SSMO_ARRAY = UF_SF_LANG_SSMO_ARRAY_VAL_TYPE

UF_SF_FEM_VALUE_TIME = UF_SF_LANG_TIME_VAL_TYPE

UF_SF_FEM_VALUE_INT_ARRAY = UF_SF_LANG_INT_ARRAY_VAL_TYPE

UF_SF_FEM_VALUE_EXT_MENU = UF_SF_LANG_EXT_MENU_VAL_TYPE

UF_SF_FEM_VALUE_CATALOG = UF_SF_LANG_CATALOG_VAL_TYPE

UF_SF_FEM_VALUE_GENERAL_FIELD = UF_SF_LANG_GENERAL_FIELD_VAL_TYPE

UF_SF_FEM_VALUE_SCALAR_FIELD = UF_SF_LANG_SCALAR_FIELD_VAL_TYPE

UF_SF_FEM_VALUE_VECTOR_FIELD = UF_SF_LANG_VECTOR_FIELD_VAL_TYPE

**UF_SF_FEM_VALUE_COMPLEX_SCALAR_FIELD =
UF_SF_LANG_COMPLEX_SCALAR_FIELD_VAL_TYPE**

UF_SF_FEM_VALUE_MATRIX = UF_SF_LANG_MATRIX_VAL_TYPE

UF_SF_FEM_VALUE_REGION = UF_SF_LANG_REGION_VAL_TYPE

UF_SF_FEM_VALUE_GROUPREF = UF_SF_LANG_GROUPREF_VAL_TYPE

UF_SF_FEM_VALUE_SELECTREF = UF_SF_LANG_SELECTREF_VAL_TYPE

**UF_SF_FEM_VALUE_SECTION_ORIENT =
UF_SF_LANG_CAE_SECTION_ORIENT_VAL_TYPE**

**UF_SF_FEM_VALUE_SECTION_OFFSET =
UF_SF_LANG_CAE_SECTION_OFFSET_VAL_TYPE**

UF_SF_FEM_VALUE_TARGETSET = UF_SF_LANG_TARGETSET_VAL_TYPE

UF_SF_FEM_VALUE_SECTION_REF = UF_SF_LANG_CAE_SECTION_REF_VAL_TYPE

UF_SF_FEM_VALUE_DOFSET_REF = UF_SF_LANG_DOFSETREF_VAL_TYPE

**UF_SF_FEM_VALUE_ALTREP_ARRAY_REF =
UF_SF_LANG_ALTERNATE_REP_ARRAY_VAL_TYPE**

UF_SF_FEM_VALUE_LBCREF = UF_SF_LANG_LBCREF_VAL_TYPE

UF_SF_FEM_VALUE_PPT_ARRAY = UF_SF_LANG_PHYSICAL_ARRAY_VAL_TYPE

UF_SF_FEM_VALUE_SOLUTIONREF = UF_SF_LANG_SOLUTIONREF_VAL_TYPE

UF_SF_FEM_VALUE_GROUPREF_ARRAY = UF_SF_LANG_GROUPREF_ARRAY_VAL_TYPE

**UF_SF_FEM_VALUE_SCALAR_FIELD_TABLE =
UF_SF_LANG_SCALAR_FIELD_TABLE_VAL_TYPE**

**UF_SF_FEM_VALUE_SOLUTIONSTEPREF =
UF_SF_LANG_SOLUTIONSTEPREF_VAL_TYPE**

**UF_SF_FEM_VALUE_POINT_ARRAY_VAL_TYPE =
UF_SF_LANG_POINT_ARRAY_VAL_TYPE**

UF_SF_HPT_method_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_HPT_method_t`
- `UF_SF_HPT_method_p_t`

Overview

The smart point definition method.

Data Members

UF_SF_HPT_NO_METHOD

Smart point created with no method.

UF_SF_HPT_ON_CURVE

Smart point created on curve.

UF_SF_HPT_BASEPT_AND_OFFSET

Smart point created as offset to some base point.

UF_SF_HPT_CENTER_OF_CONIC

Smart point created at the center of a conic.

UF_SF_HPT_CURVE_INTERSECTION

Smart point created at the intersection of two curves.

UF_SF_HPT_ON_SURFACE

Smart point created on a surface.

UF_SF_idealize_parm_exp_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Data Members

UF_SF_IDEALIZE_HOLE_DIAMETER

UF_SF_IDEALIZE_BLEND_RADIUS

UF_SF_IDEALIZE_TINY_FACE_AREA

UF_SF_IDEALIZE_THIN_FACE_WIDTH

UF_SF_IDEALIZE_FACE_COLLECTOR

UF_SF_IDEALIZE_SCREEN_SELECTED_FACE

UF_SF_idealize_parm_face_t ([view source](#))

Defined in: `uf_sf_enums.h`

Data Members

UF_SF_IDEALIZE_RETAINED_FACES

UF_SF_IDEALIZE_REMOVED_FACES

UF_SF_LANG_analysis_type_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_LANG_analysis_type_t`
- `UF_SF_LANG_analysis_type_p_t`

Data Members

UF_SF_LANG_ANALYSIS_UNKNOWN = 0
unknown language type

UF_SF_LANG_ANALYSIS_STRUCTURAL = 1
Structural analysis

UF_SF_LANG_ANALYSIS_THERMAL = 2
Thermal analysis

UF_SF_LANG_ANALYSIS_FLOW = 3
CFD analysis

UF_SF_LANG_ANALYSIS_COUPLED = 4
Flow-Thermal analysis

UF_SF_LANG_ANALYSIS_MAPPING = 5

UF_SF_LANG_linearity_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_LANG_linearity_t`
- `UF_SF_LANG_linearity_p_t`

Data Members

`UF_SF_LANG_LINEAR_LINEARITY = 1`

`UF_SF_LANG_NONLINEAR_LINEARITY = 2`

UF_SF_LANG_problem_abstract_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_LANG_problem_abstract_t`
- `UF_SF_LANG_problem_abstract_p_t`

Data Members

`UF_SF_LANG_SIMPLE_PROB_ABSTRACT = 1`

`UF_SF_LANG_AXISYM_PROB_ABSTRACT = 2`

`UF_SF_LANG_MIXED_PROB_ABSTRACT = 3`

UF_SF_LANG_time_depend_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_LANG_time_depend_t`
- `UF_SF_LANG_time_depend_p_t`

Data Members

UF_SF_LANG_STEADY_TIME_DEPEND = 1

Analysis will be steady-state.

UF_SF_LBC_component_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_LBC_component_type_t`
- `UF_SF_LBC_component_type_p_t`

Overview

The Load functions `component_type` parameter.

Data Members

UF_SF_NULL_COMP = -1

UF_SF_LBC_XYZ = 0

Having XYZ components - rectangular coordinates.

UF_SF_LBC_RTZ

Having RTZ components - Cylindrical coordinates.

UF_SF_LBC_RTP

Having RTP components - Spherical coordinates.

UF_SF_LBC_NORMAL_TO

Applicable normal to a face only.

UF_SF_LBC_EDGE_CSYS

Applicable along an edge only.

UF_SF_LEGEND_text_justification_e [\(view source\)](#)

Defined in: `uf_sf_legend.h`

Also known as:

- `UF_SF_LEGEND_text_justification_t`

Overview

Text justification for titles in the user defined color index text.

Data Members

UF_LEGEND_LEFT_JUSTIFIED_TEXT = 1

UF_LEGEND_CENTER_JUSTIFIED_TEXT = 2

UF_LEGEND_RIGHT_JUSTIFIED_TEXT = 3

UF_SF_library_material_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_library_material_t`
- `UF_SF_library_material_p_t`

Data Members

UF_SF_MATL_IS_READ_ONLY

User not allowed to edit in NX.

UF_SF_MATL_IS_EDITABLE

User allowed to edit within NX.

UF_SF_load_class_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_load_class_t`
- `UF_SF_load_class_p_t`

Overview

The Load functions `load_class` parameter.

Data Members

UF_SF_LOAD_NODE_ELEMENT_CLASS = 1

Load applied on a node.

UF_SF_LOAD_EDGE_ELEMENT_CLASS = 2

Load applied on an edge.

UF_SF_LOAD_FACE_CLASS = 3

Load applied on a face.

UF_SF_LOAD_PART_CLASS = 4

Load applied to the whole part.

UF_SF_LOAD_BODY_CLASS = 5

Load applied on a body.

UF_SF_LOAD_CURVE_CLASS = 6

Load applied on a curve.

UF_SF_load_dimension_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_load_dimension_t`
- `UF_SF_load_dimention_p_t`

Data Members

UF_SF_NULL_LOAD = 0

Load value is 0.

UF_SF_SCALAR_LOAD

Load is a scalar - temperature.

UF_SF_VECTOR_LOAD

Having RTP components - Spherical coordinates.

UF_SF_AXIS_LOAD

Applicable normal to a face only.

UF_SF_load_disp_symbol_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_load_disp_symbol_t`
- `UF_SF_load_disp_symbol_p_t`

Overview

The Load functions `load_disp_symbol` parameter.

Data Members

UF_SF_LOAD_SINGLE_HEADED_ARROW = 1

UF_SF_LOAD_DOUBLE_HEADED_ARROW = 2

UF_SF_LOAD_HALF_ARROW = 3

UF_SF_LOAD_Q_ARROW = 4

UF_SF_BC_PYRAMID = 101

UF_SF_BC_ARROW = 102

UF_SF_BC_DOUBLE_HEADED_ARROW = 103

UF_SF_BC_SMALL_CIRCLE = 104

UF_SF_BC_SMALL_ARROW = 105

UF_SF_BC_S_ON_ENTITY = 106

UF_SF_BC_M_ON_ENTITY = 107

UF_SF_load_mode_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_load_mode_t`
- `UF_SF_load_mode_p_t`

Overview

The Load functions `mode_type` parameter.

Data Members

UF_SF_LOAD_FORCE = 1

Force.

UF_SF_LOAD_DISTRIBUTED = 2

Uniform pressure, applicable only normal to the face.

UF_SF_LOAD_SPACIAL = 3

UF_SF_LOAD_GRAVITY = 4

Gravity load.

UF_SF_LOAD_PRESSURE = 5

Pressure load, can be applied in any direction.

UF_SF_LOAD_MOMENT = 6

Moment.

UF_SF_LOAD_SHEAR = 7

Edge shear.

UF_SF_LOAD_FLUX = 8

Heat flux.

UF_SF_LOAD_TEMPERATURE = 9

Temperature load.

UF_SF_LOAD_CENTRIFUGAL = 10

Centrifugal load.

UF_SF_LOAD_TORQUE = 11

Torque

UF_SF_LOAD_BEARING = 12

Bearing

UF_SF_LOAD_UNKNOWN_MODE = -99999

Unknown load mode type

UF_SF_lv_function_mode_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_lv_function_mode_t`
- `UF_SF_lv_function_mode_p_t`

Overview

The Load functions `mode_type` parameter.

Data Members

UF_SF_HALF_UNIT_CYCLE = 0

Half Unit Cycle

UF_SF_FULL_UNIT_CYCLE = 1

Full Unit Cycle

UF_SF_mate_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_mate_type_t`
- `UF_SF_mate_type_p_t`

Overview

Mating Type

Data Members

UF_SF_NOT_SUPPORT_MATE_TYPE = 0

UF_SF_ASSEMBLY_MESH

UF_SF_matl_orient_option_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_matl_orient_option_t`
- `UF_SF_matl_orient_option_p_t`

Overview

Extended material types.

Data Members

UF_SF_MATL_ORIENT_FIXED

Origin/vectors option

UF_SF_MATL_ORIENT_WCS

Create an orientation based upon the current WCS.

UF_SF_mc_result_format_e [\(view source\)](#)

Defined in: `uf_sf_element_check.h`

Also known as:

- `UF_SF_mc_result_format_t`
- `UF_SF_mc_result_format_p_t`

Overview

Model Checker related enums

Data Members

UF_SF_mc_do_not_normalize_result

UF_SF_mc_normalize_result

UF_SF_mesh_dimension_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- UF_SF_mesh_dimension_t
- UF_SF_mesh_dimension_p_t

Data Members

UF_SF_DIMENSION_0D

Element dimension is 0 - CMASS or MASS

UF_SF_DIMENSION_1D

Element dimension is 1 - Bar, beam, rods, rigid links, springs and contact elements.

UF_SF_DIMENSION_2D

Element dimension is 2 - quad4, quad8, tri3, tri6

UF_SF_DIMENSION_3D

Element dimension is 3 - tet4, tet10.

UF_SF_DIMENSION_ANY

Element of any dimension.

UF_SF_mesh_error_type_e ([view source](#))

Defined in: `uf_sf_mshvld.h`

Also known as:

- UF_SF_mesh_error_type_t
- UF_SF_mesh_error_type_p_t

Overview

This enumeration allows the specification of types of mesh errors found during mesh validation.

Data Members

UF_SF_MSHVLD_NOT_CLASSIFIED = 0

Errors have not been classified yet

UF_SF_MSHVLD_MESH_NOT_ASSOCIATED_TO_MR

Meshes are not associated to mesh recipes

UF_SF_MSHVLD_MESH_WITH_NO_ELEM

Meshes associated to alive mesh recipes do not contain any element

UF_SF_MSHVLD_MESH_WITH_DIFF_DIM_ELEM

Meshes contain elements with diff dimensions

UF_SF_MSHVLD_INVALID_ELEM_OWNER

The owner meshes of elements are incorrectly set

UF_SF_MSHVLD_INVALID_ELEM_NODE_NUM

The numbers of element nodes are invalid

UF_SF_MSHVLD_ORPHAN_NODE

Orphan nodes (with no owner elem)
are found in scenario model

UF_SF_MSHVLD_INVALID_NODE_OWNER

The owner elements of nodes are invalid

UF_SF_MSHVLD_INVALID_CORNER_MID_NODE_ORDER

The orders of corner nodes and mid nodes are invalid

UF_SF_MSHVLD_NODE_NOT_ASSOCIATED_TO_MG

The nodes are not associated to any mesh geometry

UF_SF_MSHVLD_CORNER_MID_NODE_OVERLAP

The corner/mid nodes are set as mid/corner nodes

UF_SF_MSHVLD_MID_NODE_NOT_PROPERLY_SET

Mid nodes are not properly set for
Quad8/Tria6/Tetra10/Hex20/Wdg15 elements

UF_SF_MSHVLD_INVALID_NODE_BTYPE

The boundary types of nodes are not properly set

UF_SF_MSHVLD_NODE_ASSOCIATED_TO_CHILD_FACE

Nodes are associated to child faces of compound faces

UF_SF_MSHVLD_NODE_ASSOCIATED_TO_INTERIOR_EDGE

Nodes are associated to interior edges of compound faces

UF_SF_MSHVLD_NODE_SHARED_BY_MULTIPLE_COLLECTORS

A node belongs to more than one node collector.

UF_SF_MSHVLD_DUPLICATE_NODE_LABEL

Two or more nodes have same label.

UF_SF_MSHVLD_MR_WITH_NO_MG

Mesh recipes do not contain any mesh geometry

UF_SF_MSHVLD_INVALID_1D_CONNECT_ELEM

Nodes of 1D connection elements
are not on proper mesh geometries

UF_SF_MSHVLD_INVALID_1D_WELD_ELEM

Nodes of 1D weld elements are not on hard points

UF_SF_MSHVLD_INVALID_1D_CONTACT_ELEM

Nodes of 1D contact elements are not in their edge limits

UF_SF_MSHVLD_INVALID_EDGE_LIMIT

Edge limits are not correct

UF_SF_MSHVLD_HARD_PNT_NOT_HONORED

Hard points are not honored in meshes

UF_SF_MSHVLD_INVALID_MATCH_EDGE_MESH

Matched edges in sheet bodies do not share common nodes

UF_SF_MSHVLD_INVALID_GLUE_MATE_EDGE_MESH

The edges which are part of coincident GLUE mesh mated faces
do not share common nodes

UF_SF_MSHVLD_INVALID_FREE_MATE_EDGE_MESH

The edges which are part of coincident FREE mesh mated faces
do not have duplicate nodes

UF_SF_MSHVLD_INVALID_GLUE_MATE_FACE_MESH

The faces having coincident GLUE MMC do not
share common element nodes and faces

UF_SF_MSHVLD_INVALID_FREE_MATE_FACE_MESH

The faces having coincident FREE MMC do not have duplicate element nodes and faces

UF_SF_MSHVLD_INVALID_MATCH_MATE_EDGE_MESH

Matched/glue mated edge do not share common nodes

UF_SF_MSHVLD_INVALID_EDGE_MATE_FOR_MMC

Edges on a face coincidently mating with another one are not mated with an edge on the mated face

UF_SF_MSHVLD_INVALID_END_NODE_ASSOCIATIVITY

A node on an end of an edge is not associated to all edges of the same body with the same end

UF_SF_MSHVLD_NODE_ASSOCIATED_TO_TINY_EDGE

Tiny edges have associated elements/nodes

UF_SF_MSHVLD_EDGE_DENSITY_NOT_HONORED

The user attribute Edge Density is not honored

UF_SF_MSHVLD_FACE_DENSITY_NOT_HONORED

The user attribute Face Density is not honored

UF_SF_MSHVLD_EDGE_DENSITY_NOT_HONORED_FOR_MATCH_MATE_PNRS

The user attribute Edge Density is not honored for matched/mated edges

UF_SF_MSHVLD_FACE_DENSITY_NOT_HONORED_FOR_MATE_PNRS

The user attribute Face Density is not honored for mated faces

UF_SF_MSHVLD_EDGE_FACE_DENSITY_NOT_HONORED

The user attribute Edge/Face Density is not honored

UF_SF_MSHVLD_MESH_WITH_PENDING_UPDATE

Mesh with pending update

UF_SF_mesh_geom_mesmdir_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_mesh_geom_mesmdir_t`
- `UF_SF_mesh_geom_mesmdir_p_t`

Overview

mesmdir codes associated with mesh geometry in a mesh recipe

Data Members**UF_SF_MG_MESHDIR_UNINITIALIZED = 0**

Uninitialized mesh direction.

UF_SF_MG_MESHDIR_UNDEFINED

Undefined mesh direction.

UF_SF_MG_MESHDIR_FROM_START

Mesh direction from line start

UF_SF_MG_MESHDIR_FROM_END

Mesh direction from line end

UF_SF_MG_MESHDIR_REVERSE

Reverse the mesh direction

UF_SF_MG_MESHDIR_DONT_REVERSE

Do not reverse the mesh direction.

UF_SF_mesh_geom_usage_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_mesh_geom_usage_t`
- `UF_SF_mesh_geom_usage_p_t`

Data Members**UF_SF_GEOM_ANY**

all geometry

UF_SF_GEOM_HARD

hard geometry

UF_SF_GEOM_CONNECT_A

group1 geometry

UF_SF_GEOM_CONNECT_B

group2 geometry

UF_SF_mesh_geometry_types_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_mesh_geometry_types_t`
- `UF_SF_mesh_geometry_types_p_t`

Overview

geometry types

Data Members**UF_SF_GEOM_OTHER**

Geometry does not fall into any of the categories listed below.

UF_SF_GEOM_ASSEM

Geometry is an assembly.

UF_SF_GEOM_COMPON

Geometry is a component.

UF_SF_GEOM_OCC

Geometry is an occurrence.

UF_SF_GEOM_BODY

Geometry is a body.

UF_SF_GEOM_FACE

Geometry is a face.

UF_SF_GEOM_EDGE

Geometry is an edge.

UF_SF_GEOM_SURF

Geometry is a surface.

UF_SF_GEOM_CURVE

Geometry is a curve.

UF_SF_GEOM_POINT

Geometry is a point.

UF_SF_GEOM_VERTEX

Geometry is a vertex.

UF_SF_GEOM_COMPOSITE_BODY

Geometry is a composite body

UF_SF_GEOM_COMPOSITE_FACE

Geometry is a composite face

UF_SF_GEOM_COMPOSITE_EDGE

Geometry is a composite edge

UF_SF_mesh_recipe_adaptivity_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_mesh_recipe_adaptivity_t`
- `UF_SF_mesh_recipe_adaptivity_p_t`

Data Members**UF_SF_MESH_RECIPE_ADAPT_HELMS**

Adaptivity of elements is H-type.

UF_SF_MESH_RECIPE_ADAPT_PELMS

Adaptivity of elements is P-type.

UF_SF_mid_node_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_mid_node_type_t`
- `UF_SF_mid_node_type_p_t`

Data Members

UF_SF_NODE_CORNER

Node on the corner.

UF_SF_NODE_DISABLED

Node disabled.

UF_SF_NODE_MID

Node on the middle.

UF_SF_NODE_ORIENTATION

Node with an orientation.

UF_SF_multi_prop_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_multi_prop_type_t`
- `UF_SF_multi_prop_type_p_t`

Data Members

UF_SF_MULTI_PROP_TABLE

Tabular form of variable material properties.

UF_SF_MULTI_PROP_EXPRESSION

Variation of material properties is through an expression.

UF_SF_neutral_material_types_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_neutral_material_types_t`
- `UF_SF_neutral_material_types_p_t`

Data Members

UF_SF_MATERIAL_ISOTROPIC = 0

Material is isotropic.

UF_SF_MATERIAL_ORTHOTROPIC = 1

Material is orthotropic.

UF_SF_MATERIAL_ANISOTROPIC = 2

Material is anisotropic.

UF_SF_MATERIAL_FORMABILITY = 3

Formability properties.

UF_SF_MATERIAL_FLUID = 4

Fluid material.

UF_SF_MATERIAL_HYPERELASTIC = 5

General Hyperelastic Material

UF_SF_MATERIAL_MOONEYRIVLIN=6

Mooney Rivlin

UF_SF_MATERIAL_MOONEYRIVLINTESTDATA=7

Mooney Rivlin - test data option

UF_SF_MATERIAL_POLYNOMIAL=8

Polynomial

UF_SF_MATERIAL_REDUCEDPOLYNOMIAL=9

Reduced Polynomial

UF_SF_MATERIAL_OGDEN=10

Ogden

UF_SF_MATERIAL_OGDENTESTDATA=11

Ogden - test data option

UF_SF_MATERIAL_FOAM=12

Foam

UF_SF_MATERIAL_FOAMTESTDATA=13

Foam - test data option

UF_SF_MATERIAL_BLATZ=14

Blatz-Ko

UF_SF_MATERIAL_ARRUDABOYCE=15

Arruda-Boyce

UF_SF_MATERIAL_ARRUDABOYCETESTDATA=16

Arruda-Boyce - test data option

UF_SF_MATERIAL_NEOHOOKE=17

Neo Hooke

UF_SF_MATERIAL_NEOHOOKETESTDATA=18

Neo Hooke - test data option

UF_SF_MATERIAL_MARLOW=19

Marlow

UF_SF_MATERIAL_VANDERWAALS=20

Van Der Waals

UF_SF_MATERIAL_YEOH=21

Yeoh

UF_SF_MATERIAL_YEOHTESTDATA=22

Yeoh - test data option

UF_SF_MATERIAL_GENT=23

Gent

UF_SF_MATERIAL_GASKET=24

Gasket

UF_SF_MATERIAL_GASKETBEHAVIOR=25

Gasket Behavior

UF_SF_MATERIAL_SHAPEMEMORYALLOY=26

Shape Memory Alloy

UF_SF_MATERIAL_SUSSMANBATHE=27

Sussman-Bathe hyperelastic material

UF_SF_MATERIAL_GASKETDISPLACEMENT=28

Gasket with length-based loading

UF_SF_MATERIAL_DAMAGEINTERFACE=29

Damage interface material

UF_SF_MATERIAL_MULTIPLEFLUID=30

Multiple fluid material

UF_SF_MATERIAL_HARTSMITH=31

Hart-Smith material

UF_SF_MATERIAL_ALEXANDER=32

Alexander material

UF_SF_MATERIAL_CURING=33

Curing material

UF_SF_MATERIAL_POROUS=35

Porous material

UF_SF_node_btype_e ([view source](#))Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_node_btype_t`
- `UF_SF_node_btype_p_t`

Data Members**UF_SF_NODE_BODYINTERIOR**

Node on the interior of a body.

UF_SF_NODE_EDGE

Node on an edge.

UF_SF_NODE_FACEINTERIOR

Node on the interior of a face.

UF_SF_NODE_INTERIOR

Interior node.

UF_SF_NODE_NO_GEOMETRY

Node not on any geometry.

UF_SF_NODE_POINT

Node on point. The point could be on Edge or Face, but the node on point is not a part of mesh on edge/face.

UF_SF_node_switch_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_node_switch_t`
- `UF_SF_node_switch_p_t`

Data Members**UF_SF_SWITCH_ON_BOUNDARY**

Switch to nodes only on the boundary.

UF_SF_SWITCH_IN_INTERIOR

Switch to nodes only in the interior.

UF_SF_SWITCH_ALL

Switch to all nodes, independent of the location.

UF_SF_numeric_method_e ([view source](#))

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_numeric_method_t`
- `UF_SF_numeric_method_p_t`

Overview

The definition method for numeric values.

Data Members**UF_SF_NUMERIC**

Numeric value

UF_SF_EXPRESSION

Expression string used.

UF_SF_POST_coord_sys_type_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_coord_sys_type_t`
- `UF_SF_POST_coord_sys_type_p_t`

Overview

Co-ordinate systems

Data Members

UF_SF_POST_ABS_RECTANGULAR

Absolute rectangular co-ord system

UF_SF_POST_ABS_CYLINDRICAL

Cylindrical co-ordinate system

UF_SF_POST_ABS_SPHERICAL

Absolute Spherical co-ord system

UF_SF_POST_WRK_RECTANGULAR

WCS rectangular co-ord system

UF_SF_POST_WRK_CYLINDRICAL

WCS Cylindrical co-ord system

UF_SF_POST_WRK_SPHERICAL

WCS Spherical co-ord system

UF_SF_POST_LOCAL

Local co-ordinate system

UF_SF_POST_display_marker_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_display_marker_t`
- `UF_SF_POST_display_marker_t_p`

Overview

Display Marker Styles

Data Members

UF_SF_POST_DISPLAY_MARKER_MIN_MAX = 0

Display both Max and Min markers

UF_SF_POST_DISPLAY_MARKER_MAXIMUM

Display only the Max marker

UF_SF_POST_DISPLAY_MARKER_MINIMUM

Display only the Min marker

UF_SF_POST_DISPLAY_MARKER_NONE

Do not display any markers

UF_SF_POST_elem_display_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_elem_display_t`
- `UF_SF_POST_elem_display_t_p`

Overview

Element Display Styles

NOTE : This choice does NOT seem to be exposed via UI at present

Data Members

UF_SF_POST_ELEM_DISP_ALL= 0

All elements are displayed

UF_SF_POST_ELEM_DISP_FOLLOW_SCENARIO

Use Scenario settings

UF_SF_POST_ELEM_DISP_1D

Display 1D elements only

UF_SF_POST_ELEM_DISP_2D

Display 2D elements only

UF_SF_POST_ELEM_DISP_3D

Display 3D elements only

UF_SF_POST_elem_edge_style_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_elem_edge_style_t`
- `UF_SF_POST_elem_edge_style_t_p`

Overview

Element Edge Display Styles

Data Members

UF_SF_POST_ELEM_EDGE_NONE

No element edges are displayed

UF_SF_POST_ELEM_EDGE_FREE

Only free element edges are displayed

UF_SF_POST_ELEM_EDGE_EXTERNAL

All external element edges are displayed

UF_SF_POST_ELEM_EDGE_WIRE

Element edges are displayed as wireframe

UF_SF_POST_elem_face_style_e ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_elem_face_style_t`
- `UF_SF_POST_elem_face_style_t_p`

Overview

Element Face Display Styles

Data Members**UF_SF_POST_ELEM_FACE_NONE**

Element faces are not displayed

UF_SF_POST_ELEM_FACE_FILLED

Faces displayed in a fill color

UF_SF_POST_ELEM_FACE_FILLED_TRANS

Translucency applied over fill color

UF_SF_POST_ELEM_FACE_AUTO

Automatic style selection enabled

UF_SF_POST_elem_value_e ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_elem_value_t`
- `UF_SF_POST_elem_value_t_p`

Data Members**UF_SF_POST_ELEM_VALUE_CENT = 0**

UF_SF_POST_ELEM_VALUE_AVE

UF_SF_POST_ELEM_VALUE_MIN

UF_SF_POST_ELEM_VALUE_MAX

UF_SF_POST_file_type_e ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_file_type_t`
- `UF_SF_POST_file_type_t_p`

Data Members

UF_SF_POST_FILE_NONE

UF_SF_POST_FILE_ASCII

UF_SF_POST_FILE_BINARY

UF_SF_POST_FILE_VRML

UF_SF_POST_FILE_JT

UF_SF_POST_fringe_color_spec_e ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_fringe_color_spec_t`
- `UF_SF_POST_fringe_color_spec_t_p`

Overview

Fringe Color Spectrum Components

Data Members

UF_SF_POST_FRINGE_COLOR_STRUCT

Structural scale color display

UF_SF_POST_FRINGE_COLOR_TEMP

Temperature scale color display

UF_SF_POST_FRINGE_COLOR_GRAY

Grey scale color display

UF_SF_POST_FRINGE_COLOR_SAFETY_FACTOR

UF_SF_POST_fringe_legend_opt_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_fringe_legend_opt_t`
- `UF_SF_POST_fringe_legend_opt_t_p`

Overview

Fringe Legend Components

Data Members

UF_SF_POST_FRINGE_LEGEND_NONE

No Legend color bar

UF_SF_POST_FRINGE_LEGEND_COLOR

Legend color bar with color index only

UF_SF_POST_FRINGE_LEGEND_DETAILED

Legend color bar with color index and detailed specification

UF_SF_POST_fringe_scale_spec_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_fringe_scale_spec_t`
- `UF_SF_POST_fringe_scale_spec_t_p`

Overview

Fringe Scale Spectrum Components

Data Members

UF_SF_POST_FRINGE_SCALE_AUTOMATIC

Automatic query for linear scale or log scale

UF_SF_POST_FRINGE_SCALE_LINEAR

Linear scale spectrum

UF_SF_POST_FRINGE_SCALE_LOG

UF_SF_POST_fringe_style_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_fringe_style_t`
- `UF_SF_POST_fringe_style_t_p`

Overview

Fringe Style Components

Data Members

UF_SF_POST_FRINGE_NONE

No Style

UF_SF_POST_FRINGE_CONTOUR_LINES

Contour lines display format

UF_SF_POST_FRINGE_ISOSURFACES

Isosurface display format

UF_SF_POST_FRINGE_CONTOUR_BANDS

Contour band display format

UF_SF_POST_FRINGE_SMOOTH_TONE

Smooth tone display format

UF_SF_POST_FRINGE_ELEM_VALUES

Element value display format

UF_SF_POST_FRINGE_ARROW

UF_SF_POST_FRINGE_CUBE

UF_SF_POST_FRINGE_SPHERE

UF_SF_POST_FRINGE_TENSOR

UF_SF_POST_hue_colors_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_hue_colors_t`
- `UF_SF_POST_hue_colors_t_p`

Overview

Choice of colors for element edge/face display

Data Members

UF_SF_POST_BLACK

UF_SF_POST_MAGENTA_RED

UF_SF_POST_MAGENTA

UF_SF_POST_BLUE_MAGENTA

UF_SF_POST_BLUE

UF_SF_POST_CYAN_BLUE

UF_SF_POST_CYAN

UF_SF_POST_GREEN_CYAN

UF_SF_POST_GREEN

UF_SF_POST_YELLOW_GREEN

UF_SF_POST_YELLOW

UF_SF_POST_ORANGE

UF_SF_POST_RED

UF_SF_POST_DARK_GRAY

UF_SF_POST_LIGHT_GRAY

UF_SF_POST_WHITE

UF_SF_POST_id_type_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_id_type_p_t`

Data Members

UF_SF_POST_USERID

UF_SF_POST_VKIID

UF_SF_POST_ident_action_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_ident_action_t`
- `UF_SF_POST_ident_action_t_p`

Data Members

UF_SF_POST_IDENT_NODES

UF_SF_POST_IDENT_ELEMS

UF_SF_POST_IDENT_ELEM_NODES

UF_SF_POST_IDENT_MESH_NODES

UF_SF_POST_IDENT_MESH_ELEMS

UF_SF_POST_IDENT_MESH_ELEMS_1D

UF_SF_POST_IDENT_MESH_ELEMS_2D

UF_SF_POST_IDENT_MESH_ELEMS_3D

UF_SF_POST_IDENT_EDGE_NODES

UF_SF_POST_IDENT_FACE_NODES

UF_SF_POST_IDENT_BODY_NODES

UF_SF_POST_IDENT_N_HIGH_NODES

UF_SF_POST_IDENT_N_LOW_NODES

UF_SF_POST_IDENT_N_HIGH_ELEMS

UF_SF_POST_IDENT_N_LOW_ELEMS

UF_SF_POST_IDENT_NODE_IDS

UF_SF_POST_IDENT_ELEM_IDS

UF_SF_POST_IDENT_NODE_BY_ELEM_IDS

UF_SF_POST_IDENT_1D_ELMS

UF_SF_POST_layout_type_t ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_layout_type_t_p`

Overview

Soma start

Data Members

UF_SF_SINGLE_VIEW = 1

UF_SF_SIDE_BY_SIDE

UF_SF_TOP_BOTTOM

UF_SF_THREE_VIEWS

UF_SF_FOUR_VIEWS

UF_SF_SIX_VIEWS

UF_SF_NINE_VIEWS

UF_SF_POST_mark_arrow_style_t ([view source](#))

Defined in: `uf_sf_post_datatypes.h`

Data Members

`UF_SF_POST_MARK_ARROW_STYLE_LINE`

`UF_SF_POST_MARK_ARROW_STYLE_UMBRELLA`

`UF_SF_POST_MARK_ARROW_STYLE_CYLINDER`

`UF_SF_POST_mark_color_type_t` [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Data Members

`UF_SF_POST_MARK_COLOR_RESULT`

`UF_SF_POST_MARK_COLOR_ANNOTEXT`

`UF_SF_POST_MARK_COLOR_SELECTED`

`UF_SF_POST_mark_hide_valtype_t` [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Data Members

`UF_SF_POST_MARK_HIDE_RESULTPERCENT`

`UF_SF_POST_MARK_HIDE_VALUE`

`UF_SF_POST_mark_loc_type_t` [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Data Members

UF_SF_POST_MARK_AT_NODES

UF_SF_POST_MARK_AT_ELEMCENTROID

UF_SF_POST_mark_size_type_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Data Members

UF_SF_POST_MARK_SIZE_RESULT

UF_SF_POST_MARK_SIZE_CONSTANT

UF_SF_POST_mark_size_valtype_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Data Members

UF_SF_POST_MARK_SIZE_MODELPERCENT

UF_SF_POST_MARK_SIZE_VALUE

UF_SF_POST_mark_tensor_style_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Data Members

UF_SF_POST_MARK_TENSOR_STYLE_ARROWS

UF_SF_POST_MARK_TENSOR_STYLE_CROWSFEET

UF_SF_POST_MARK_TENSOR_STYLE_BOX

UF_SF_POST_minmax_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_minmax_p_t`

Data Members

`UF_SF_POST_MINIMUM`

`UF_SF_POST_MAXIMUM`

UF_SF_POST_object_type_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_object_type_p_t`

Data Members

`UF_SF_POST_NODE`

`UF_SF_POST_ELEM`

UF_SF_POST_res_type_dimension_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_res_type_dimension_t_p`

Data Members

`UF_SF_POST_RES_TYPE_SCALAR = 0`

UF_SF_POST_RES_TYPE_VECTOR

UF_SF_POST_RES_TYPE_TENSOR

UF_SF_POST_TYPE_SIX_DOF_VECTOR

UF_SF_POST_TYPE_ELEMENTRESULT

UF_SF_POST_TYPE_GENERALTENSOR

UF_SF_POST_result_comp_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_result_comp_t`
- `UF_SF_POST_result_comp_p_t`

Overview

Stress Components

Data Members

UF_SF_POST_COMP_SCALAR

Scalar value of the result

UF_SF_POST_COMP_X

X-component result

UF_SF_POST_COMP_Y

Y-component result

UF_SF_POST_COMP_Z

Z-component result

UF_SF_POST_COMP_MAG

Magnitude

UF_SF_POST_COMP_XX

XX-component

UF_SF_POST_COMP_YY

YY-component

UF_SF_POST_COMP_ZZ

ZZ-component

UF_SF_POST_COMP_XY

XY-component

UF_SF_POST_COMP_YZ

YZ-component

UF_SF_POST_COMP_ZX

ZX-component

UF_SF_POST_COMP_DETERMINANT

Determinant values

UF_SF_POST_COMP_MEAN

Mean stress values

UF_SF_POST_COMP_MAX_SHEAR

Maximum shear values

UF_SF_POST_COMP_MIN_PRNCPL

Minimum Principal stress

UF_SF_POST_COMP_MID_PRNCPL

Mid Principal stress

UF_SF_POST_COMP_MAX_PRNCPL

Maximum Principal stress

UF_SF_POST_COMP_OCTAHEDRAL

Octahedral values

UF_SF_POST_COMP_VON_MISES

Von-mises stresses

UF_SF_POST_COMP_MEMBRANE_XX**UF_SF_POST_COMP_MEMBRANE_YY****UF_SF_POST_COMP_MEMBRANE_XY****UF_SF_POST_COMP_BENDING_XX****UF_SF_POST_COMP_BENDING_YY****UF_SF_POST_COMP_BENDING_XY****UF_SF_POST_COMP_SHEAR_YZ****UF_SF_POST_COMP_SHEAR_XZ****UF_SF_POST_COMP_AXIAL****UF_SF_POST_COMP_BENDING_S****UF_SF_POST_COMP_BENDING_T****UF_SF_POST_COMP_TORSION****UF_SF_POST_COMP_SHEAR_S**

UF_SF_POST_COMP_SHEAR_T

UF_SF_POST_COMP_RX

UF_SF_POST_COMP_RY

UF_SF_POST_COMP_RZ

UF_SF_POST_COMP_EF_FX

UF_SF_POST_COMP_EF_FY

UF_SF_POST_COMP_EF_FZ

UF_SF_POST_COMP_EF_MX

UF_SF_POST_COMP_EF_MY

UF_SF_POST_COMP_EF_MZ

UF_SF_POST_COMP_STRAIN_E

UF_SF_POST_COMP_SH_RE_FXX
UF_SF_POST_COMP_MEMBRANE_XX

UF_SF_POST_COMP_SH_RE_FYY
UF_SF_POST_COMP_MEMBRANE_YY

UF_SF_POST_COMP_SH_RE_FXY
UF_SF_POST_COMP_MEMBRANE_XY

UF_SF_POST_COMP_SH_RE_MX
UF_SF_POST_COMP_BENDING_XX

UF_SF_POST_COMP_SH_RE_MY
UF_SF_POST_COMP_BENDING_YY

UF_SF_POST_COMP_SH_RE_MXY
UF_SF_POST_COMP_BENDING_XY

UF_SF_POST_COMP_SH_RE_VX
UF_SF_POST_COMP_SHEAR_YZ

UF_SF_POST_COMP_SH_RE_VY
UF_SF_POST_COMP_SHEAR_XZ

UF_SF_POST_COMP_STRENGTH
Kirby insert end

UF_SF_POST_result_file_type_t [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_result_file_type_p_t`

Overview

type def's for POST PROCESSOR

Data Members

UF_SF_POST_OUTPUT2 = 0

Nastran output file

UF_SF_POST_ANSYS = 2

Ansys output file

UF_SF_POST_FOCUS = 4

FOCUS Database file

UF_SF_POST_ABAQUS = 5

Abaqus results file

UF_SF_POST_MODEL_SOL = 6

Model Solution results file

UF_SF_POST_OUTPUT2_FATIGUE = 7

Nastran fatigue file

UF_SF_POST_ANSYS_FATIGUE = 8

Ansys fatigue file

UF_SF_POST_ABAQUS_FATIGUE = 9

Abaqus fatigue file

UF_SF_POST_FOCUS_FATIGUE = 10

Focus fatigue file

UF_SF_POST_THERMAL_FLOW = 11

TMG THERMAL / FLOW file

UF_SF_POST_LSDYNA_STATE_RESULT = 12

LSDyna State result

UF_SF_POST_result_type_lay_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_result_type_lay_t`

Overview

Results at layers

Data Members

UF_SF_POST_AT_MID

Result at mid section

UF_SF_POST_AT_TOP

Result at top section

UF_SF_POST_AT_BOT

Result at bottom section

UF_SF_POST_AT_MIN

Minimum value

UF_SF_POST_AT_MAX

Maximum value

UF_SF_POST_AT_SRP_C

Stress Recovery Point at section-1

UF_SF_POST_AT_SRP_D

Stress Recovery Point at section-2

UF_SF_POST_AT_SRP_E

Stress Recovery Point at section-3

UF_SF_POST_AT_SRP_F

Stress Recovery Point at section-4

UF_SF_POST_AT_ALL

Result at all sections/plies

UF_SF_POST_result_type_loc_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_result_type_loc_t`

Overview

Results at locations

Data Members

UF_SF_POST_AT_NODES

Nodal results

UF_SF_POST_AT_ELEMS

Element results

UF_SF_POST_AT_ELNDs

Element Nodal results

UF_SF_POST_result_type_quan_e [\(view source\)](#)

Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_result_type_quan_t`

Overview

Result parameters

Data Members

UF_SF_POST_DISPLACEMENT

Displacement values in the result

UF_SF_POST_ROTATION

Rotational values

UF_SF_POST_CONTACT_DISP

Displacement for contact elements

UF_SF_POST_VELOCITY

Velocity for centrifugal loads

UF_SF_POST_ACCELERATION

Acceleration for centrifugal loads

UF_SF_POST_STRESS

Stress values

UF_SF_POST_STRAIN

Strain values

UF_SF_POST_STRAIN_E

Strain Energy values

UF_SF_POST_STRAIN_ED

Strain Energy density

UF_SF_POST_STRAIN_EE

Strain Energy Error

UF_SF_POST_STRAIN_PLAST_EQ

UF_SF_POST_STRAIN_CREEP_EQ

UF_SF_POST_THICKNESS

Thickness value

UF_SF_POST_TEMPERATURE

Temperature value

UF_SF_POST_TEMP_GRAD

Temperature Gradient value

UF_SF_POST_HEAT_FLUX

Heat flux value

UF_SF_POST_THERMAL_ENERGY

Thermal energy value

UF_SF_POST_REACTION_HEAT_FLOW

Reaction heat flow value

UF_SF_POST_APPLIED_FORCE

Applied load

UF_SF_POST_APPLIED_MOMENT**UF_SF_POST_REACTION_FORCE**

Reaction force

UF_SF_POST_REACTION_MOMENT**UF_SF_POST_CONTACT_TRACTION****UF_SF_POST_CONTACT_FORCE****UF_SF_POST_ELEMENT_FORCE**

Element force

UF_SF_POST_ELEMENT_PRESSURE

Element Pressure (Contact Elements)

UF_SF_POST_FATIGUE_LIFE

Fatigue life

UF_SF_POST_FATIGUE_DAMAGE

Fatigue damage

UF_SF_POST_FATIGUE_SAFETY

Fatigue safety factor

UF_SF_POST_STRENGTH_SAFETY

Strength safety factor

UF_SF_POST_ELEMENT_ERROR

Element Error

UF_SF_POST_ELEMENTRESULT**UF_SF_POST_MAX_TEMPERATURE_TRANSIENT****UF_SF_POST_MIN_TEMPERATURE_TRANSIENT****UF_SF_POST_TIME_OF_MAX_TEMPERATURE_TRANSIENT****UF_SF_POST_TIME_OF_MIN_TEMPERATURE_TRANSIENT****UF_SF_POST_CONDUCTIVE_FLUX****UF_SF_POST_TOTAL_HEAT_LOAD****UF_SF_POST_TOTAL_HEAT_FLUX****UF_SF_POST_HEAT_RESIDUAL**

UF_SF_POST_FILM_COEF

UF_SF_POST_VIEW_FACTORS_SUM

UF_SF_POST_VELOCITIES_ADJUSTED

UF_SF_POST_PRESSURE_POSITIVE_SIDE

UF_SF_POST_PRESSURE_NEGATIVE_SIDE

UF_SF_POST_STATIC_PRESSURE

UF_SF_POST_TOTAL_PRESSURE

UF_SF_POST_TURBULENCE_ENERGY

UF_SF_POST_TURBULENCE DISSIPATION

UF_SF_POST_FLUID_DENSITIES

UF_SF_POST_SHEAR_STRESS_POSITIVE_SIDE

UF_SF_POST_SHEAR_STRESS_NEGATIVE_SIDE

UF_SF_POST_ROUGHNESS_POSITIVE_SIDE

UF_SF_POST_ROUGHNESS_NEGATIVE_SIDE

UF_SF_POST_YPLUS_POSITIVE_SIDE

UF_SF_POST_YPLUS_NEGATIVE_SIDE

UF_SF_POST_MASS_FLUX

UF_SF_POST_FLUID_TEMPERATURES

UF_SF_POST_HEAT_FLUX_CONVECTIVE

UF_SF_POST_CONVECTION_COEF_LOCAL

UF_SF_POST_CONVECTION_COEF_BULK

UF_SF_POST_PRESSURE

UF_SF_POST_VELOCITY_COMPONENT

UF_SF_POST_MASS_FLOW

UF_SF_POST_ELEM_HEAT_LOAD

UF_SF_POST_STRUCTURAL_PERF

Structural Performance

UF_SF_POST_FAIL_INDEX_PLY

Ply failure index

UF_SF_POST_FAIL_INDEX_BOND

Bond failure index

UF_SF_POST_ELEM_FORCE

RS element force

UF_SF_POST_SHELL_RESULTANT

RS shell resultant

UF_SF_POST_PEAK_DISPL

PEAK Response:

UF_SF_POST_PEAK_ACCEL

PEAK Response:

UF_SF_POST_PEAK_STRES

PEAK Response:

UF_SF_POST_PEAK_EL_FC

PEAK Response:

UF_SF_POST_PEAK_SH_RE

PEAK Response:

UF_SF_POST_RMS_DISPL

Root Mean Square:

UF_SF_POST_RMS_ACCEL

Root Mean Square:

UF_SF_POST_RMS_STRES

Root Mean Square:

UF_SF_POST_RMS_EL_FC

Root Mean Square:

UF_SF_POST_RMS_SH_RE

Root Mean Square:

UF_SF_POST_LCR_DISPL

Lever Crossing Rate:

UF_SF_POST_LCR_ACCEL

Lever Crossing Rate:

UF_SF_POST_LCR_STRES

Lever Crossing Rate:

UF_SF_POST_LCR_EL_FC

Lever Crossing Rate:

UF_SF_POST_LCR_SH_RE

Lever Crossing Rate:

UF_SF_ADAPT_ELEMENT_STRESS_ERROR

Element stress error

UF_SF_ADAPT_NODE_REFINEMENT

Mesh refinement level

UF_SF_POST_target_t ([view source](#))Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_target_t_p`

Overview

target

Data Members**UF_SF_POST_TARGET_FREEFACE = 0****UF_SF_POST_TARGET_VOLUME****UF_SF_POST_TARGET_CUTTINGPLANE**

UF_SF_POST_template_type_t ([view source](#))Defined in: `uf_sf_post_datatypes.h`

Also known as:

- `UF_SF_POST_template_type_t_p`

Data Members**UF_SF_POST_UNKNOWN_TEMPLATE_TYPE = -1****UF_SF_POST_TEMPLATE_TYPE_LAYOUT****UF_SF_POST_TEMPLATE_TYPE_POSTVIEW**

UF_SF_scenario_info_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Data Members

UF_SF_mesh_info = 0

export info about meshes

UF_SF_load_info = 1

export info about loads

UF_SF_solution_info = 2

export info about solutions

UF_SF_step_info = 3

export info about steps

UF_SF_boundary_condition_info = 4

export info about boundary conditions.

UF_SF_material_info = 5

export info about materials
Assigned to a specified entity.

UF_SF_section_info = 6

export info about sections

UF_SF_mesh_mating_condition_info = 7

export info about a mesh mating condition.

UF_SF_fea_summary_info = 8

export a summary including all fea entities.

UF_SF_dur_event_info = 9

export a summary including all load variations for the event.

UF_SF_load_case_info = 10

export info about load cases

UF_SF_sim_summary_info = 11

export a summary of simulation entities.

UF_SF_section_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_section_type_t`
- `UF_SF_section_type_p_t`

Data Members

UF_SF_SECTION_TWREC = 0

Thin wall, rectangle

UF_SF_SECTION_TWCYL

Thin wall, cylinder

UF_SF_SECTION_TWCHA

Thin wall, channel

UF_SF_SECTION_TWHAT

Thin wall, hat

UF_SF_SECTION_TWIBE

Thin wall, I beam

UF_SF_SECTION_SOCYL

Solid, cylinder

UF_SF_SECTION_SOREC

Solid, rectangle

UF_SF_SECTION_KEYIN

User defined.

UF_SF_SECTION_USER_TW

User Defined TW

UF_SF_SECTION_USER_SOLID

User Defined Solid

UF_SF_SECTION_NUM_TYPES

UF_SF_sfqm_elem_type_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SF_sfqm_elem_type_t`
- `UF_SF_sfqm_elem_type_p_t`

Overview

ATM parameters

Data Members

UF_SF_SFQM_QUAD4

UF_SF_SFQM_TRIA3

UF_SF_SFQM_QUAD8

UF_SF_SFQM_TRIA6

UF_SF_THRESHOLD_shape_e [\(view source\)](#)

Defined in: `uf_sf_model_checker.h`

Also known as:

- `UF_SF_THRESHOLD_shape_t`
- `UF_SF_THRESHOLD_shape_p_t`

Overview

Element type enum for shape check

Data Members

`UF_SF_THRESHOLD_shape_tri3 = 0`

`UF_SF_THRESHOLD_shape_tri6`

`UF_SF_THRESHOLD_shape_quad4`

`UF_SF_THRESHOLD_shape_quad8`

`UF_SF_THRESHOLD_shape_tetra4`

`UF_SF_THRESHOLD_shape_tetra10`

`UF_SF_THRESHOLD_shape_hex8`

`UF_SF_THRESHOLD_shape_hex20`

`UF_SF_THRESHOLD_shape_wdg6`

`UF_SF_THRESHOLD_shape_wdg15`

`UF_SF_THRESHOLD_shape_pyr5`

`UF_SF_THRESHOLD_shape_pyr13`

`UF_SF_THRESHOLD_shape_all`

UF_SF_ugs_2d_mesher_elem_type_e [\(view source\)](#)

Defined in: `uf_sf_ugs_mesh.h`

Also known as:

- `UF_SF_ugs_2d_mesher_elem_type_t`

Overview

Enumeration: `-UF_SF_ugs_2d_mesher_elem_type_t`

This enumeration allows the specification of what 2d shell element type should be generated by a shell mesher.

Data Members

`UF_SF_UGS_MESHER_tri3 = 0`

`UF_SF_UGS_MESHER_tri6 = 1`

`UF_SF_UGS_MESHER_quad4 = 2`

`UF_SF_UGS_MESHER_quad8 = 3`

UF_SF_ugs_abstraction_fillet_type_option_e [\(view source\)](#)

Defined in: `uf_sf_ugs_mesh.h`

Also known as:

- `UF_SF_ugs_abstraction_fillet_type_option_t`

Overview

Enumeration: `-UF_SF_ugs_abstraction_fillet_type_option_t`

This enumeration allows the specification of fillet types to be considered during abstraction.

Data Members

`UF_SF_UGS_ABSTRACTION_FILLET__all = 0`

Both concave as well as convex fillets

`UF_SF_UGS_ABSTRACTION_FILLET__inside = 1`

Inside radius fillets.

`UF_SF_UGS_ABSTRACTION_FILLET__outside = 2`

Outside radius fillets

UF_SF_ugs_mesher_midnode_option_e [\(view source\)](#)

Defined in: `uf_sf_ugs_mesh.h`

Also known as:

- `UF_SF_ugs_mesher_midnode_option_t`

Overview

Enumeration: `-UF_SF_ugs_mesher_midnode_option_t`

This enumeration allows the specification of how midnodes should be placed during meshing.

Data Members

UF_SF_UGS_MESHER_straight_midnodes = 2

All midnodes will be placed at straight line linear location between corner nodes.

UF_SF_UGS_MESHER_curved_midnodes = 1

All midnodes will be project to underlying geometry.

UF_SF_UGS_MESHER_mixed_midnodes = 0

All midnodes will be projected to underlying geometry, unless doing so would input Jacobian error threshold.

UF_SF_ugs_tet_mesh_fillet_type_option_e [\(view source\)](#)

Defined in: `uf_sf_ugs_mesh.h`

Also known as:

- `UF_SF_ugs_tet_mesh_fillet_type_option_t`

Data Members

UF_SF_UGS_TET_MESH_FILLET__all = 0

Both concave as well as convex fillets

UF_SF_UGS_TET_MESH_FILLET__inside = 1

Inside radius fillets.

UF_SF_UGS_TET_MESH_FILLET__outside = 2

Outside radius fillets

UF_SFANS_algorithm_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Data Members

UF_SFANS_NULL_SOLVER = -1

UF_SFANS_FRONTAL_SOLVER = 0

UF_SFANS_PCG_SOLVER

UF_SFANS_JCG_SOLVER

UF_SFANS_SPARSE_SOLVER

UF_SFANS_JCG_PCG_SOLVER

UF_SFANS_JCG_FRONTAL_SOLVER

UF_SFANS_SUBSPACE_MODOPT_SOLVER

UF_SFANS_LANCZOS_MODOPT_SOLVER

UF_SFANS_POWERDYN_MODOPT_SOLVER

UF_SFANS_NUM_ALGORITHM_TYPES

UF_SFAS_mode_type_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Data Members

UF_MODE_TYPE = 0

UF_MODE_AND_FREQUENCY_RANGE_TYPE

UF_FREQUENCY_RANGE_TYPE

UF_SFAS_MAX_MODE_CHOICES

UF_SFFEA_algorithm_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Data Members

UF_SFFEA_AUTOMATIC = -1

UF_SFFEA_DIRECT_IN_CORE = 0

UF_SFFEA_DIRECT_OUT_OF_CORE = 2

UF_SFFEA_ITERATIVE_IN_CORE = 6

UF_SFFEA_ITERATIVE_OUT_OF_CORE = 8

UF_SFFEA_SPARSE = 10

UF_SFFEA_ITERATIVE = 11

UF_SFMC_result_e [\(view source\)](#)

Defined in: `uf_sf_element_check.h`

Also known as:

- `UF_SFMC_result_t`

Overview

This enum is used for element check reporting

Data Members

SFMC_passed_check
check passed

SFMC_failed_check
at least one check failed

SFMC_error_with_check
error occurred in operation

SFMC_check_does_not_apply
not applicable for given element

UF_SFNAS_inter_output_types_e [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Also known as:

- `UF_SFNAS_inter_output_types_t`
- `SFNAS_inter_output_types_t`

Data Members

`INTOUT_YES = 0`

`INTOUT_NO`

`INTOUT_ALL`

UF_SFOPT_solver_type_t [\(view source\)](#)

Defined in: `uf_sf_enums.h`

Data Members

`UF_SFOPT_NULL_SOLVER_TYPE = -1`

`UF_SFOPT_GENERIC_SOLVER_TYPE = 0`

`UF_SFOPT_SENSITIVITY_SOLVER_TYPE = 1`

`UF_SFOPT_HYPEROPT_SOLVER_TYPE = 2`

`UF_MAX_NUM_SOLVER_TYPES = 3`
