UF_BREP_edge_class_e (view source)

Defined in: uf_brep_types.h

Overview

Edge topology and geometry classifications for UF_BREP_ask_edge_class.

Data Members

UF_BREP_EDGE_OPEN = 1
Two distinct vertices.

UF_BREP_EDGE_CLOSED
Start and end vertex are the same.

UF_BREP_EDGE_RING
Edge has no vertices.

UF_BREP_EDGE_NORMAL = 10
Has a 3D curve.

UF_BREP_EDGE_INTERSECTION
Two intersecting surfaces implicitly define 3D curve.

UF_BREP_EDGE_TOLERANT
Fins define edge curve.

UF_BREP_EDGE_SP
Has an SP curve, but not a tolerant edge.

UF_BREP_geom_type_e (view source)

Defined in: uf_brep_types.h

Also known as:

- UF_BREP_geom_type_t

Overview

Geometry types: points, curves, surfaces, etc.
Note:
The order of enum items is important, e.g., the code relies on
surface types lying numerically between UF_BREP_SURFACE_ALL and
UF_BREP_SPECIAL_BASE.

Data Members

UF_BREP_GEOM_ALL = 0

UF_BREP_POINT_GEOM

UF_BREP_CURVE_ALL = 100

UF_BREP_LINE_GEOM

UF_BREP_SPLINE_GEOM

UF_BREP_ARC_GEOM

UF_BREP_ELLIPSE_GEOM
conic

UF_BREP_HYPERBOLA_GEOM
conic

UF_BREP_PARABOLA_GEOM
conic

UF_BREP_INTERSECTION_GEOM
for conv mapping; no corresponding structure
yet

UF_BREP_COMPOSITE_GEOM

UF_BREP_SURFACE_ALL = 200

UF_BREP_CYLINDER_GEOM

UF_BREP_CONE_GEOM

UF_BREP_SPHERE_GEOM

UF_BREP_TORUS_GEOM

UF_BREP_REVOLVE_GEOM

UF_BREP_EXTRUDE_GEOM

UF_BREP_BSURFACE_GEOM

UF_BREP_OFFSET_GEOM

UF_BREP_PLANE_GEOM

UF_BREP_BLEND_GEOM
conv mapping; no corresponding structure yet

UF_BREP_FORSURF_GEOM

UF_BREP_SPECIAL_BASE = 300

UF_BREP_UVBOX_GEOM
conv mapping; no corresponding structure yet

UF_BREP_TAG_GEOM

UF_BREP_orientation_e (view source)

Defined in: uf_brep_types.h

Also known as:
- UF_BREP_orientation_t

Data Members

UF_BREP_ORIENTATION_REVERSE = -1

UF_BREP_ORIENTATION_NONE

UF_BREP_ORIENTATION_FORWARD

UF_BREP_topo_source_e (view source)

Defined in: uf_brep_types.h

Also known as:
- UF_BREP_topo_source_t

Overview
These are the topology sources for the body topology structure
(UF_BREP_ask_topology_source).

Data Members

UF_BREP_APP_BODY_SOURCE

UF_BREP_APP_TRIMSURF_SOURCE

UF_BREP_UGO_BODY_SOURCE

UF_BREP_UGO_TRIMSURF_SOURCE

UF_BREP_topo_type_e (view source)

Defined in: uf_brep_types.h

Also known as:

- UF_BREP_topo_type_t

Overview

These are the topology types for the type member of the topology structure. A topology may contain only one of UF_BREP_SOLID_TOPO or UF_BREP_SHEET_TOPO. It contains as many of the others as needed.

Data Members

UF_BREP_NULL_TOPO

UF_BREP_SOLID_TOPO

UF_BREP_SHEET_TOPO

UF_BREP_TRIMSURF_TOPO

UF_BREP_SHELL_TOPO

UF_BREP_FACE_TOPO

UF_BREP_LOOP_TOPO

UF_BREP_FIN_TOPO

UF_BREP_EDGE_TOPO

UF_BREP_VERTEX_TOPO