

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_asso_arc_subtype_t`

Overview

This enum is used to specify the type of constraint to be applied.

Data Members

UF_CURVE_line_arc_three_point_arc = 0

3 point arc

UF_CURVE_asso_arc_from_center

arc from_center

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_bridge_method_t`

Overview

Methods for Bridge Curve creation

Data Members

UF_CURVE_match_tangent_ends

Tangent Continuous, shape controlled at end points.

UF_CURVE_match_tangent_peak

Tangent Continuous, shape controlled at peak points.

UF_CURVE_match_curvature_ends

Curvature Continuous, shape controlled at end points.

UF_CURVE_match_curvature_peak

Curvature Continuous, shape controlled at peak points.

UF_CURVE_inherit_shape

Shape controlled by input reference curve.

UF_CURVE_tangent_conic

Tangent Continuous, conic curve.

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_constraint_type_t`

Overview

This enum is used to specify the sub type of Arc .

Data Members

UF_CURVE_constraint_none = -1

no constraint defined

UF_CURVE_coincident

Coincident with a point

UF_CURVE_tangent

Tangent to a curve

UF_CURVE_normal

Normal to a curve/Surface

UF_CURVE_angle

At an angle to a linear entity

UF_CURVE_along_x

Along the WCS X axis

UF_CURVE_along_y

Along the WCS Y axis

UF_CURVE_along_z

Along the WCS Z axis

UF_CURVE_radius

Specific radius for arc/circle

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_direction_t`

Overview

Type of curve projection

`UF_CURVE_create/ask/edit_combine_curves`

Data Members

UF_CURVE_ALONG_PLANAR_CURVE_NORMALS

UF_CURVE_ALONG_FIXED_VECTOR

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_end_type_t`

Overview

This enum is used to specify the end of curve to which the constraint must be applied.

Data Members

UF_CURVE_start = 0

Apply to the start of curve

UF_CURVE_end

Apply to the end of curve

UF_CURVE_middle

Apply to the middle of arc

UF_CURVE_center

Apply to the center of arc

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_help_data_type_t`

Overview

This enum is used to specify the type of help data to be applied.

Data Members

UF_CURVE_help_data_none = 0

UF_CURVE_help_data_parameter

a parameter is supplied

UF_CURVE_help_data_value

coordinate of a point is supplied

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_join_type_t`

Data Members

UF_CURVE_NO_JOIN = 0

Don't join the curves

UF_CURVE_CUBIC_JOIN

Create a cubic polynomial join curve

UF_CURVE_GENERAL_JOIN

Create a general spline join curve

UF_CURVE_QUINTIC_JOIN

Create a quintic polynomial join curve

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_limit_type_t`

Overview

This enum is used to specify the type of limit to be applied.

Data Members

UF_CURVE_limit_to_constraint= 0

Limit upto the constrained object

UF_CURVE_limit_value

Extend the end by a value

UF_CURVE_limit_to_entity

Limit upto the specified object

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_line_arc_type_t`

Overview

This enum is used to specify the type of to be create.

Data Members

UF_CURVE_asso_none = -1

no asso type

UF_CURVE_asso_line

Create a line

UF_CURVE_asso_arc

Create a arc

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_ocf_cross_boundaries_t`

Overview

Enumeration fields for different types of boundary methods for offset curves in an associated offset curve on face.

There are two types of boundary methods for creating offset curve(s) in an associated offset curve on face feature.

The boundary method is used to control the offset curves in case the offset curves are crossing the boundary of the input faces for offset.

Data Members

UF_CURVE_OCF_CROSS_BOUNDARIES_NONE = 0

This type prevents from the offset curves from crossing the boundary of the input of faces

UF_CURVE_OCF_CROSS_BOUNDARIES

This type allows the offset curves to cross the boundary of the input faces

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_ocf_method_t`

Overview

Enumeration fields for different types of offset methods for creating an associated offset curve on face. There are four types of methods for creating an offset curve in an associated offset curve on face feature. These methods are used for calculating different types of offset distances based on the input offset value.

Data Members

UF_CURVE_OCF_CHORDAL=0

This type will offset the string based on the chordal distance

UF_CURVE_OCF_ARCLENGTH

This type will offset the string based on the arc length

UF_CURVE_OCF_GEODESIC

This type will offset the string based on the geodesic method, i.e. the curve is offset along the minimum distance on the input faces

UF_CURVE_OCF_TANGENTIAL

This type will offset the string in tangential direction and then and then project it back on to the faces

UF_CURVE_ocf_span_method_e ([view source](#))

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_ocf_span_method_t`

Overview

Enumeration fields for different types of spanning methods for offset curves in an associated offset curve on face.

There are two types of spanning methods for creating offset curve(s) in an associated offset curve on face feature.

The spanning method is used to control the extent to which an offset curve is created in case there is a gap between the offset curve and the face boundary.

Data Members

UF_CURVE_OCF_SPAN_NONE = 0

This type will prevent the offset curves from being extended to the boundary

UF_CURVE_OCF_SPAN_QUILT

This type will result in the offset curves being extended to the boundary

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_ocf_trim_method_t`

Overview

Enumeration fields for different types of trimming methods for offset curves in an associated offset curve on face.

There are two types of trimming methods for creating offset curve(s) in an associated offset curve on face feature.

These methods are used for trimming the offset curves from a string.

Data Members

UF_CURVE_OCF_NO_EXTENSION=0

This type will prevent a corner being created between the offset curves

UF_CURVE_OCF_TANGENT

This type will create a corner between the offset curves along their tangents

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_offset_type_t`
- `UF_CURVE_offset_type_p_t`

Data Members

UF_CURVE_OFFSET_DISTANCE_NO_TRIM = 1

This type will offset by a distance with no trimming/extending done to the offset curves

UF_CURVE_OFFSET_DISTANCE_FILLET

This type will offset by a distance and trim/extend the offset curves to their intersection points using a fillet. The system constructs an arc tangent to the endpoint of each offset curve. The radius of the arc is equal to the offset distance.

UF_CURVE_OFFSET_DISTANCE_TANGENT

This type will offset by a distance and extend/trim the offset curves to their intersection points. The amount of extension is unlimited.

UF_CURVE_OFFSET_DISTANCE_LIMITED_TANGENT

This type will offset by a distance and extend/trim the offset curves to their intersection points. The amount of extension is limited to the extension factor.

UF_CURVE_OFFSET_DRAFT_NO_TRIM

This type will offset according to draft height and angle values with no trimming/ extending done to the offset curves.

UF_CURVE_OFFSET_DRAFT_FILLET

This type will offset according to draft height and angle values and trim/extend the offset curves to their intersection points using a fillet. The system constructs an arc tangent to the endpoint of each offset curve. The radius of the arc is equal to the offset distance.

UF_CURVE_OFFSET_DRAFT_TANGENT

This type will offset according to draft height and angle values and extend/trim the offset curves to their intersection points. The amount of extension is unlimited.

UF_CURVE_OFFSET_DRAFT_LIMITED_TANGENT

This type will offset according to draft height and angle values and extend/trim the offset curves to their intersection points. The amount of extension is limited to the extension factor.

UF_CURVE_OFFSET_3D_AXIAL

This type will offset a 3d axial distance.

The 3d axial offset corresponds to the intersection of an extrusion of the curves in the axial direction with a tube generated by the curves and having radius = axial distance

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_principal_axis_type_t`

Overview

This enum is for choice of principal axis

Data Members

UF_CURVE_X_AXIS = 0

UF_CURVE_Y_AXIS

UF_CURVE_Z_AXIS

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_trim_opts_t`

Overview

This enum is used to define spline extension options, type of trim desired, and end of strings to trim/extend.

Data Members

UF_CURVE_EXTEND_NATURAL

UF_CURVE_EXTEND_LINEAR

UF_CURVE_EXTEND_CIRCULAR

UF_CURVE_EXTEND_NONE

UF_CURVE_TRIM_TO_ONE_BOUND

UF_CURVE_TRIM_TO_TWO_BOUND

UF_CURVE_TRIM_TO_TOTAL_LENGTH

UF_CURVE_TRIM_TO_INCR_LENGTH

UF_CURVE_TRIM_OUTSIDE

UF_CURVE_TRIM_INSIDE

UF_CURVE_TRIM_EXTEND_START

UF_CURVE_TRIM_EXTEND_END

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

Defined in: `uf_curve.h`

Also known as:

- `UF_CURVE_wrap_type_t`
- `UF_CURVE_wrap_type_p_t`

Data Members

UF_CURVE_WRAP

Indicates that the curves are to be wrapped from the Wrap Plane onto the Wrap Face

UF_CURVE_UNWRAP

Indicates that the curves are to be unwrapped from the Wrap Face onto the Wrap Plane.

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

Defined in: `uf_curve.h`

Also known as:

- `UF_MODL_units_t`

Overview

UF_CURVE_CREATE_SPLINE_THRU_PTS

Data Members

UF_MODL_UNITS_PART = 0

same as parts units

UF_MODL_INCH

inches

UF_MODL_MMETER

millimeters

UF_MODL_CMETER

centimeters

UF_MODL_METER

meters
