

Chapter 7.

Enumerations

Topic: Ignore

In C++, an enumeration (enumerated data type) defines a list of constant integer values, each with a unique identifier name. Enumerations are defined using the `enum` keyword. Refer to the *3D ACIS Online Help User's Guide* for a description of the fields in the reference template.

blend_transition

Enumeration: Blending

Purpose: Defines the kind of transition blending is required to make when the blend runs off an underlying entity.

Filename: blnd/blend/kernbool/entent/bl_trans.hxx

Values:

blend_unknown=0	unknown blend
blend_runout=1	run the blend out
blend_cap=2	cap the blend
blend_rollon=3	roll on over the entity

bl_convexity

Enumeration: Blending, SAT Save and Restore

Purpose: Defines the convexity of a blend.

Filename: blnd/blend/kernbool/entent/bl_cxty.hxx

Values:

bl_convexity_unknown=0	unknown convexity
bl_convex=1	blend is convex
bl_concave=2	blend is concave

bl_cvxty_ents

Enumeration: SAT Save and Restore, Blending

Purpose: Text specifies blending convexity.

Filename: blnd/blend/kernbool/blending/blnattri.cxx

Values: bl_ed_undefined_cvxty="undefined" convexity is unknown
 bl_ed_convex="convex" blend is convex
 bl_ed_concave="concave" blend is concave
 bl_ed_convex_smooth="convex_smooth" blend is convex and smooth
 bl_ed_concave_smooth="concave_smooth" blend is concave and smooth
 bl_ed_smooth="smooth" blend is smooth
 bl_ed_convex_cusp="convex_cusp" blend is convex and cusp
 bl_ed_concave_cusp="concave_cusp" blend is concave and cusp
 bl_ed_cusp="cusp" blend is cusp

bl_ed_sense

Enumeration: Blending

Purpose: Defines the sense of the blend spring curve along the edge to help define where the blend goes.

Filename: blnd/blend/kernbool/entent/bl_sup_e.hxx

Values: bl_forward=0 The spring curve moves always forwards along the edge, possibly with momentary stationary points.
 bl_reversed=1 The spring curve always goes backwards along the edge, possibly with momentary stationary points.
 bl_stationary=2 The spring curve is actually a point on the edge and does not move at all along it. Note that a further field, edge_stat_cw, indicating the direction of the pivoting about the edge, MUST also be set in this case.
 bl_sense_unset=3 Not yet set. Geometry construction MUST set it.

bl_how_ents

Enumeration: SAT Save and Restore, Blending

Purpose: Text specifies what type of blending is to be performed at ends.

Filename:	blnd/blend/kernbool/blending/blnattri.cxx	
Values:	bl_how_default="default"	follow default behavior
	bl_how_cap="cap"	cap or mitre regardless of edge convexity
	bl_how_roll_on="roll_on"	roll-on regardless of edge convexity
	bl_error="error"	used to prevent a blend from spreading too far

bl_v_property

Enumeration: Blending
 Purpose: Specifies blend behavior at a vertex attached to one or more blended edges.

Filename: blnd/blend/kernbool/blending/vbl_enum.hxx

Values:	bl_v_unset=0	vertex blend
	bl_v_bi_blend=1	used internally to mark an interior vertex of a blend sequence for which more blend sheet faces will be made.
	bl_v_cusp=2	notes that two blended edges meeting in a cusp at the vertex and zero, one or more unblended smooth edges meet in the vertex, for which a special vertex blend boundary must be made.
	bl_v_blend=3	vertex blend.
	bl_v_cap=4	means cap or mitre at a vertex joined to one or two blended edges (same as default behavior with no attribute on the vertex at the end of a blend sequence.)
	bl_v_roll_on=5	means close off the open end using edge-face or edge-edge blends.
	bl_v_runout=6	means close off the open end using a variable-radius blend.

rad_form_ents

Enumeration: SAT Save and Restore, Blending
 Purpose: Text specifies the type of radius blending.

Filename: blnd/blend/sg_husk/vrbln/at_b_bl.cxx

Values: RADIUS_UNSET="unknown" radius is unset
 TWO_ENDS="two_ends" radius at two ends
 FUNCTIONAL="functional" radius is functional
 FIXED_WIDTH="fixed_width" radius has fixed width

point_support_containment

Enumeration: Blending

 Purpose: Indicates for variable radius blends where the blend is in relation to the
 entity on which the blend lies.

Filename: blnd/blend/kernbool/entent/bl_sup.hxx

Values: point_unknown_support=0 unknown
 point_inside_support=1 blend is inside the entity
 point_boundary_support=2 blend is on boundary of the entity
 point_outside_support=3 blend is outside the entity

sec_form_ents

Enumeration: SAT Save and Restore, Blending

 Purpose: Text specifies the form of section.

Filename: blnd/blend/sg_husk/vrbln/at_b_bl.cxx

Values: XSECT_UNKNOWN="unknown" cross section is unknown
 CIRCULAR="circular" cross section is circular
 THUMBWEIGHTS="thumbweights" cross section thumbweights