Chapter 43. Typedefs

Topic: Ignore

In C++, a typedef (type definition) is used to define a new data type name. Typedefs are declared using the typedef keyword. A typedef declaration does not create a new data type; it simply creates a new name for some existing type. Typedefs are useful for making programs more portable and more readable. Refer to the *3D ACIS Online Help User's Guide* for a description of the fields in the reference template.

bs2_curve

Typedef: Spline Interface, Construction Geometry

Purpose: Defines a 2D B-spline curve.

Filename: kern/kernel/spline/bs2_crv/bs2curve.hxx

Definition: typedef class bs2_curve_def *bs2_curve;

Description: Defines a 2D B-spline curve that is used to approximate true curves, and

provides insulation between the modeler and the underlying curve

package.

bs3 curve

Typedef: Spline Interface, Construction Geometry

Purpose: Defines a 3D B–spline curve.

Filename: kern/kernel/spline/bs3_crv/bs3curve.hxx

Definition: typedef class bs3_curve_def *bs3_curve;

Description: Defines a 3D B-spline curve that is used to approximate true curves, and

provides insulation between the modeler and the underlying curve

package.

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bs3 surface

Typedef: Spline Interface, Construction Geometry

Purpose: Defines a 3D B-spline surface.

Filename: kern/kernel/spline/bs3_srf/bs3surf.hxx

Definition: typedef struct bs3_surf_def *bs3_surface;

Description: Defines a 3D B-spline surface that is used to approximate true surfaces,

and provides insulation between the modeler and the underlying curve

package.

entity_test_proc

Typedef: Scheme Interface, Entity

Purpose: Procedure which tests an ENTITY.

Filename: kern/kernel/geomhusk/efilter.hxx

Definition: typedef logical (*entity_test_proc) (const ENTITY*);

Description: Definition type for a procedure which tests an entity.

is fun

Typedef: Feature Naming

Purpose: Function pointer type used in various search routines.

Filename: kern/kernel/kernapi/api/kernapi.hxx

Definition: typedef logical (*is_fun)(const ENTITY*);

Description: Function pointer type used in various search routines. Functions named

is_<entityclass> (where <entityclass> is the name of a class derived from ENTITY) can be assigned to this pointer to determine if a given object is a

specific type of entity (i.e., a specific class derived from ENTITY).

STATE ID

Typedef: History and Roll

Purpose: Identifier for a STATE.

Filename: kern/kernel/kernapi/api/kernapi.hxx

Definition: typedef int STATE_ID;

Description: Unique identifier for a given STATE.

tag_id_type

Typedef: History and Roll

Purpose: Identifier for a ENTITY.

Filename: kern/kernel/kernapi/api/kernapi.hxx

Definition: typedef int tag_id_type;

Description: Unique identifier for a given ENTITY.