

Appendix A.

Reference Summary

Topic: Ignore

This appendix provides a summary of the reference items defined in the Selective Booleans Component. Just the name and a brief description of each item is given. There is a separate section for each type of item (class, function, Scheme extension, test harness command, etc.).

Classes

Topic: Ignore

 tube_options Creates a data structure to facilitate generalizing selective Booleans.

Functions

Topic: Ignore

 api_boolean_tube_body Does a selective Boolean operation on two bodies.

 api_create_graph_from_cells Creates a graph (from cells) used in graph theory.

 api_create_graph_from_edges Creates a graph used in graph theory.

 api_create_graph_from_faces Creates a graph (from edges) used in graph theory.

 api_initialize_sbooleans Initializes the Selective Booleans Component library.

 api_selective_boolean_stage1 Creates a graph for the first stage of selective Booleans from a tool body and a blank body.

 api_selective_boolean_stage2 Completes the selective Boolean process for the cells selected.



api_selective_unite	Unites two bodies with the given positions.
api_subgraph_2dcell	Returns a subgraph containing only the vertices that are 2D cells.
api_subgraph_3dcell	Returns a subgraph containing only the vertices that are 3D cells.
api_subset_graph_with_plane	Finds the subset of a graph on one side of a plane.
api_terminate_sbooleans	Terminates the Selective Booleans Component library.

Scheme Extensions

Topic:

Ignore

bool:sel-unite	Unites two bodies.
bool:select1	Creates a graph for the first stage of selective Booleans from a tool body and a blank body.
bool:select2	Completes the selective Boolean process for the cells selected.
bool:tube	Performs a selective Boolean operation, as specified in the given option.
graph	Creates a graph used in graph theory.
graph:subgraph-2dcell	Returns a subgraph containing only the vertices that are 2D cells.
graph:subgraph-3dcell	Returns a subgraph containing only the vertices that are 3D cells.
graph:subset-with-plane	Finds the subset of a graph on one side of a plane.
tube:options	Creates a data structure used by selective Booleans.