liba2ri

0.2

Generated by Doxygen 1.8.1.2

Tue Dec 9 2014 15:31:19

Contents

1 Data Structure Index **1**

1.1 Data Structures 1

2 Data Structure Documentation **3**

2.1 bpa_edge Struct Reference 3

2.2 bpa_fronts Struct Reference 3

2.3 hashtable Struct Reference 3

2.4 IT_bpa_liste Struct Reference 4

2.5 ITargument_hashtable Struct Reference 4

2.6 ITcouple Struct Reference 4

2.7 ITicp_thread_argument Struct Reference 4

2.8 ITlistecouple Struct Reference 5

2.9 ITnettoyage_thread_argument Struct Reference 5

2.10 IToverlap_thread_argument Struct Reference 5

2.11 ITparam_decoup Struct Reference 6

2.12 mycontainer Struct Reference 6

2.13 point2d Struct Reference 6

2.13.1 Detailed Description 6

2.14 point3d Struct Reference 6

2.14.1 Detailed Description 7

2.15 polyhedron Struct Reference 7

2.16 sp_depth Struct Reference 7

2.17 sp_height Struct Reference 7

2.18 sp_width Struct Reference 8

2.19 space_partition Struct Reference 8

2.19.1 Detailed Description 8

2.20 vector3d Struct Reference 8

2.21 vef_edge Struct Reference 8

2.22 vef_face Struct Reference 9

2.23 vef_model Struct Reference 9

2.24 vef_vertex Struct Reference 9

2.25 vf_edge Struct Reference 10
2.26 vf_face Struct Reference 10
2.27 vf_model Struct Reference 10
2.27.1 Detailed Description 11
2.28 vf_vertex Struct Reference 11

Chapter 1

Data Structure Index

1.1 Data Structures

Here are the data structures with brief descriptions:

bpa_edge . . . 3
bpa_fronts . . . 3
hashtable . . . 3
IT_bpa_liste . . . 4
ITargument_hashtable . . . 4
ITcouple . . . 4
ITicp_thread_argument . . . 4
ITlistecouple . . . 5
ITnettoyage_thread_argument . . . 5
IToverlap_thread_argument . . . 5
ITparam_decoup . . . 6
mycontainer . . . 6
point2d . . . 6
point3d . . . 6
polyhedron . . . 7
sp_depth . . . 7
sp_height . . . 7
sp_width . . . 8
space_partition . . . 8
vector3d . . . 8
vef_edge . . . 8
vef_face . . . 9
vef_model . . . 9
vef_vertex . . . 9
vf_edge . . . 10
vf_face . . . 10
vf_model . . . 10
vf_vertex . . . 11

Chapter 2

Data Structure Documentation

2.1 bpa_edge Struct Reference

Data Fields

- int **sigma_i**
- int **sigma_j**
- int **sigma_o**
- point3d **cijo**
- char **state**
- struct bpa_edge * **next**
- struct bpa_edge * **prev**
- struct bpa_fronts * **front**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/triangulation.h

2.2 bpa_fronts Struct Reference

Data Fields

- bpa_edge * **front**
- struct bpa_fronts * **next**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/triangulation.h

2.3 hashtable Struct Reference

Data Fields

- int **size_array**
- int **count**
- container ** **list**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/hashtable.h

2.4 IT_bpa_liste Struct Reference

Data Fields

- int * **list**
- int **nbelt**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/triangulation.c

2.5 ITargument_hashtable Struct Reference

Data Fields

- vf_model * **m**
- vf_vertex * **nvpt**
- int **att_int**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/subdivision.c

2.6 ITcouple Struct Reference

Data Fields

- vf_model * **m**
- double * **list**
- int **size**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/quality.c

2.7 ITicp_thread_argument Struct Reference

Data Fields

- space_partition * **sp**
- point3d * **liste**
- point3d * **liste_retour**
- int **nb**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/icp.c

2.8 ITlistecouple Struct Reference

Data Fields

- int * **list**
- int **nbelt**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/topology.c

2.9 ITnettoyage_thread_argument Struct Reference

Data Fields

- point3d * **liste_centre1**
- point3d * **liste_centre2**
- double * **liste_rayon1**
- double * **liste_rayon2**
- double **sensibility**
- int **nbtest1deb**
- int **nbtest1fin**
- int **nbtest2**
- int ** **asupprimer**
- int * **nbelt**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/triangulation.c

2.10 IToverlap_thread_argument Struct Reference

Data Fields

- point3d * **liste_centre1**
- point3d * **liste_centre2**
- double * **liste_rayon1**
- double * **liste_rayon2**
- double **sensibility**
- int **nbtest1deb**
- int **nbtest1fin**
- int **nbtest2**
- int ** **retour**
- int * **nbelt**
- vf_model * **m**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/overlap.c

2.11 ITparam_decoup Struct Reference

Data Fields

- vf_model * **m**
- int * **indexar**
- point3d **A**
- point3d **B**
- point3d **C**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/src/subdivision.c

2.12 mycontainer Struct Reference

Data Fields

- struct mycontainer * **next**
- vf_edge * **data**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/hashtable.h

2.13 point2d Struct Reference

`#include <point.h>`

Data Fields

- double **x**
- double **y**
- int **att_int**
- double **att_double**

2.13.1 Detailed Description

Structure point2d

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/point.h

2.14 point3d Struct Reference

`#include <point.h>`

Data Fields

- double **x**
- double **y**
- double **z**
- int **att_int**
- double **att_double**

2.14.1 Detailed Description

Structure point3d

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/point.h

2.15 polyhedron Struct Reference

Data Fields

- int **fa1**
- int **fa2**
- int **fa3**
- int **fa4**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/polyhedron.h

2.16 sp_depth Struct Reference

Data Fields

- point3d * **list_point**
- int **nb_point**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/space_partition.h

2.17 sp_height Struct Reference

Data Fields

- sp_depth * **z**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/space_partition.h

2.18 sp_width Struct Reference

Data Fields

- sp_height * **y**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/space_partition.h

2.19 space_partition Struct Reference

`#include <space_partition.h>`

Data Fields

- point3d **ptmin**
- point3d **ptmax**
- int **nb_part_x**
- int **nb_part_y**
- int **nb_part_z**
- sp_width * **x**

2.19.1 Detailed Description

structure de partition de l'espace avec un tableau à 3 dimensions contenant des listes de points

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/space_partition.h

2.20 vector3d Struct Reference

Data Fields

- double **dx**
- double **dy**
- double **dz**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/vector.h

2.21 vef_edge Struct Reference

Data Fields

- int **ve1**
- int **ve2**
- int * **sharedfaces**

- int **nbsharedfaces**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/edge.h

2.22 vef_face Struct Reference

Data Fields

- int **ed1**
- int **ed2**
- int **ed3**
- int **type**
- int * **sharedpolyhedrons**
- int **nbsharedpolyhedrons**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/face.h

2.23 vef_model Struct Reference

Data Fields

- vef_vertex * **ve**
- vef_edge * **ed**
- vef_face * **fa**
- polyhedron * **pol**
- int **nbvertex**
- int **nbedge**
- int **nbface**
- int **nbpolyhedron**
- double **xmin**
- double **ymin**
- double **zmin**
- double **xmax**
- double **ymax**
- double **zmax**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/model.h

2.24 vef_vertex Struct Reference

Data Fields

- double **x**
- double **y**
- double **z**

- int * **sharededges**
- int **nbsharededges**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/vertex.h

2.25 vf_edge Struct Reference

Data Fields

- int **ve1**
- int **ve2**
- int * **sharedfaces**
- int **nbsharedfaces**
- int **att_int**
- double **att_double**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/edge.h

2.26 vf_face Struct Reference

Data Fields

- int **ve1**
- int **ve2**
- int **ve3**
- int **type**
- int * **sharedpolyhedrons**
- int **nbsharedpolyhedrons**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/face.h

2.27 vf_model Struct Reference

`#include <vf_model>`

Data Fields

- vf_vertex * **ve**
- vf_face * **fa**
- polyhedron * **pol**
- int **nbvertex**
- int **nbface**
- int **nbpolyhedron**
- double **xmin**

- double **ymin**
- double **zmin**
- double **xmax**
- double **ymax**
- double **zmax**

2.27.1 Detailed Description

Structure de données pour stocker un maillage triangulaire grâce à une liste de sommets et une liste de faces. Une face étant définie par trois sommets identifiés par leur numéro d'incide dans la liste de sommets.

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/model.h

2.28 vf_vertex Struct Reference

Data Fields

- double **x**
- double **y**
- double **z**
- int * **incidentvertices**
- int **nbincidentvertices**

The documentation for this struct was generated from the following file:

- /home/remi/Recherche/a2ri/include/vertex.h

Index

bpa_edge, 3
bpa_fronts, 3

hashtable, 3

IT_bpa_liste, 4
ITargument_hashtable, 4
ITcouple, 4
ITicp_thread_argument, 4
ITlistecouple, 5
ITnettoyage_thread_argument, 5
IToverlap_thread_argument, 5
ITparam_decoup, 6

mycontainer, 6

point2d, 6
point3d, 6
polyhedron, 7

sp_depth, 7
sp_height, 7
sp_width, 8
space_partition, 8

vector3d, 8
vef_edge, 8
vef_face, 9
vef_model, 9
vef_vertex, 9
vf_edge, 10
vf_face, 10
vf_model, 10
vf_vertex, 11