DOCUMENTATION

NAVIGATION

Package: *Routers_Configuration_Structures*

- Goto spec source
- Goto body source

DESCRIPTION

```
package Routers_Configuration_Structures is
```

Uwe R. Zimmer, Australia, September 2016

TYPES

Preconfigured_Topologies

- **Goto declaration in source**

```
type Preconfigured_Topologies is (Line, Ring, Star, Fully_Connected, Tree, Mesh,
Torus, Hypercube, Cube_Connected_Cycles, Butterfly, Wrap_Around_Butterfly);
```

References:

routers_configuration_structures.ads:9:9 (declaration)
routers_configuration_structures.ads:14:29 (reference)
test_routers.adb:26:77 (reference)
test_routers.adb:55:71 (reference)
test_routers.adb:314:57 (reference)

Test_Modes

- **Goto declaration in source**

```
type Test_Modes is (One_To_All, All_to_One);
```

References:

routers_configuration_structures.ads:11:9 (declaration)
routers_configuration_structures.ads:23:29 (reference)
test_routers.adb:40:77 (reference)
test_routers.adb:64:72 (reference)

Command_Line_Options

- **Goto declaration in source**

```
type Command_Line_Options is record
    Selected_Topology  : Preconfigured_Topologies := Cube_Connected_Cycles;
    Size               : Positive                 := 20;
    Degree             : Positive                 := 3;
    Depths             : Positive                 := 4;
    Dimension          : Positive                 := 3;
    Print_Connections  : Boolean                  := True;
    Print_Distances    : Boolean                  := True;
    Routers_Settle_Time : Duration                := 0.1;
    Comms_Timeout      : Duration                 := 0.1;
    Test_Mode          : Test_Modes               := One_To_All;
    Dropouts           : Natural                  := 0;
  end record;
```

References:

routers_configuration_structures.ads:13:9 (declaration)

SUBPROGRAMS & ENTRIES

Get_Topology

- **Goto spec in source**
- **Goto body in source**

```
function Get_Topology
```

(Command_Line_Parameters : Command_Line_Options)
return Topology_Kind'Class;

References:
routers_configuration_structures.ads:27:13 (declaration)
generic_routers_configuration.ads:13:58 (call)
routers_configuration_structures.adb:7:13 (body)
routers_configuration_structures.adb:23:8 (label)

Calls:
Topologies.Butterfly defined at topologies.ads:25:13
Topologies.Cube_Connected_Cycles defined at topologies.ads:24:13
Topologies.Fully_Connected defined at topologies.ads:19:13
Topologies.Hypercube defined at topologies.ads:23:13
Topologies.Line defined at topologies.ads:16:13
Topologies.Mesh defined at topologies.ads:21:13
Topologies.Ring defined at topologies.ads:17:13
Topologies.Star defined at topologies.ads:18:13
Topologies.Torus defined at topologies.ads:22:13
Topologies.Trees defined at topologies.ads:20:13
Topologies.Wrap_Around_Butterfly defined at topologies.ads:26:13

•

Assignment Project Exam Help

https://powcoder.com

•

Add WeChat powcoder

•

'