

# DOCUMENTATION

## Table of Contents Class Inheritance Tree

1. --
2. -- Uwe R. Zimmer, Australia, September 2016
3. --
- 4.
5. with TopologiesTo API docTo specTo body; use TopologiesTo API docTo specTo body;
- 6.
7. package Routers\_Configuration\_StructuresTo API docTo body is
- 8.
9. type Preconfigured\_Topologies is (Line, Ring, Star, Fully\_Connected, Tree, Mesh, Torus, Hypercube, Cube\_Connected\_Cycles, Butterfly, Wrap\_Around\_Butterfly);
- 10.
11. type Test\_Modes is (One\_To\_All, All\_to\_One);
- 12.
13. type Command\_Line\_Options is record
14.     Selected\_Topology     : Preconfigured\_TopologiesTo API docTo spec :=  
      Cube\_Connected\_Cycles;
15.     Size                   : Positive                         := 20;
16.     Degree                : Positive                         := 3;
17.     Depths                 : Positive                         := 4;
18.     Dimension             : Positive                         := 3;
19.     Print\_Connections     : Boolean                           := True;
20.     Print\_Distances       : Boolean                           := True;
21.     Routers\_Settle\_Time   : Duration                         := 0.1;
22.     Comms\_Timeout         : Duration                         := 0.1;
23.     Test\_Mode             : Test\_ModesTo API docTo spec         :=  
      One\_To\_All;
24.     Dropouts              : Natural                           := 0;

```
25.   end record;  
  
26.  
  
27.   function Get_TopologyTo API docTo body (Command Line ParametersTo API docTo  
      body : Command Line OptionsTo API docTo spec) return Topology KindTo API docTo  
      spec'Class;  
  
28.  
  
29.end Routers Configuration StructuresTo API docTo specTo body;
```

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