DOCUMENTATION

1. --

2. --   Uwe R. Zimmer, Australia, September 2011

3. --

4.

5. package TopologiesTo API docTo body is

6.

7.   type Topology_Kind is interface;

8.

9.   function Nodes_in_Topology (Configuration : Topology_KindTo API docTo spec) return Positive is abstract;

10.   function Nodes_Connected   (Configuration : Topology_KindTo API docTo spec;

11.   Node_A, Node_B : Positive)   return Boolean is abstract;

12.

13.   function Min_DegreeTo API docTo body   (Configuration : Topology_KindTo API docTo spec'Class) return Natural;

14.   function Max_DegreeTo API docTo body   (Configuration : Topology_KindTo API docTo spec'Class) return Natural;

15.

16.   function LineTo API docTo body   (Size   : Positive) return Topology_KindTo API docTo spec'Class;

17.   function RingTo API docTo body   (Size   : Positive) return Topology_KindTo API docTo spec'Class;

18.   function StarTo API docTo body   (Size   : Positive) return Topology_KindTo API docTo spec'Class;

19.   function Fully_ConnectedTo API docTo body   (Size   : Positive) return Topology_KindTo API docTo spec'Class;

20.   function TreesTo API docTo body   (Degree, Depths : Positive) return Topology_KindTo API docTo spec'Class;

21.   function MeshTo API docTo body   (Dimension, Size : Positive) return Topology_KindTo API docTo spec'Class;

22.   function TorusTo API docTo body   (Dimension, Size :

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   Positive) return Topology_KindTo API docTo spec&apos;Class;

23.   function HypercubeTo API docTo body                (Dimension       :
   Positive) return Topology_KindTo API docTo spec&apos;Class;

24.   function Cube_Connected_CyclesTo API docTo body (Dimension       :
   Positive) return Topology_KindTo API docTo spec&apos;Class;

25.   function ButterflyTo API docTo body                (Dimension       :
   Positive) return Topology_KindTo API docTo spec&apos;Class;

26.   function Wrap_Around_ButterflyTo API docTo body (Dimension       :
   Positive) return Topology_KindTo API docTo spec&apos;Class;

27.

28.end TopologiesTo API docTo specTo body;
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