Package: *Generic_Router_Links (generic)*

- Goto spec source
- Goto body source

DESCRIPTION

```
generic

   type Router_Range  is (<>);
   type Router_Task_P is private;

   Null_Reference : Router_Task_P;

package Generic_Router_Links is
```

Uwe R. Zimmer, Australia, September 2011

TYPES

Router_Range

- **Goto declaration in source**

```
type Router_Range  is (<>);
```

References:
generic_router_links.ads:7:9 (declaration)
generic_router_links.adb:7:40 (reference)
generic_router_links.adb:12:24 (reference)
generic_router_links.adb:21:27 (reference)
generic_router_links.ads:15:14 (reference)
generic_router_links.ads:20:42 (reference)
generic_router_links.ads:22:40 (reference)

Router_Task_P

- **Goto declaration in source**

```
type Router_Task_P is private;
```

References:
generic_router_links.ads:8:9 (declaration)
generic_router_links.ads:10:21 (reference)
generic_router_links.ads:16:14 (reference)
generic_router_links.ads:20:64 (reference)

Router_Ports

- **Goto declaration in source**

```
type Router_Ports is record
      Id   : Router_Range;
      Link : Router_Task_P;
   end record;
```

References:
generic_router_links.ads:14:9 (declaration)

generic_router_links.ads:19:64 (reference)

Connected_Router_Ports

- **Goto declaration in source**

```
type Connected_Router_Ports is array (Positive range <>) of Router_Ports;
```

References:

generic_router_links.ads:19:9 (declaration)
generic_router_links.adb:7:83 (reference)
generic_router_links.adb:18:23 (reference)
generic_router_links.ads:22:83 (reference)
generic_router.adb:19:31 (reference)

Ids_To_Links

- **Goto declaration in source**

```
type Ids_To_Links        is array (Router_Range)      of Router_Task_P;
```

References:

generic_router_links.ads:20:9 (declaration)
generic_router_links.adb:7:62 (reference)
generic_router_links.ads:22:62 (reference)
generic_routers.adb:38:18 (reference)
generic_router.adb:11:27 (reference)
generic_router.adb:14:33 (reference)
generic_router.ads:29:32 (reference)

CONSTANTS & GLOBAL VARIABLES

Null_Reference

- **Goto declaration in source**

(Router_Task_P)

```
Null_Reference : Router_Task_P;
```

References:

generic_router_links.ads:10:4 (declaration)
generic_router_links.adb:13:64 (reference)

generic_router_links.adb:22:67 (reference)

SUBPROGRAMS & ENTRIES

To_Router_Ports

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

```
function To_Router_Ports
  (       Task_Id                 : Router_Range;

                                  : Ids_To_Links) return
          Links                   Connected_Router_Po
                                  rts;
```

References:

generic_router_links.ads:22:13 (declaration)
generic_router_links.adb:7:13 (body)
generic_router_links.adb:31:8 (label)
generic_router.adb:19:57 (call)

Called by:

Generic_Router.Router_Task defined at generic_router.ads:27:14

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