

```
1 -----
2 --
3 --          Copyright (C) 2010, AdaCore          --
4 --
5 -----
6
7 with System; use System;
8 with Ada.Real_Time; use Ada.Real_Time;
9
10 generic
11   type Message is private;
12   Ceiling : Priority;
13   Task_Priority : Priority;
14   MIT : Time_Span;
15   Stack_Size : Positive;
16   with procedure Dispatch (Msg : Message);
17 package Sporadic_Archetype is
18
19   procedure Wait (Msg : out Message; Release_Time : out Time);
20
21   procedure Put (Msg : Message);
22
23 private
24
25   protected Protocol is
26     pragma Priority (Ceiling);
27
28     entry Wait (Msg : out Message; Release_Time : out Time);
29
30     procedure Put (Msg : Message);
31
32   private
33
34     Barrier      : Boolean := False;
35     Stored_Msg   : Message;
36
37   end Protocol;
38
39   task Handler is
40     pragma Storage_Size (Stack_Size);
```

```
41     pragma Priority (Task_Priority);  
42     end Handler;  
43  
44 end Sporadic_Archetype;  
45
```