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MODULE RdcViewInView;                                     (* Date : 6 October 2011 *)
                                                         (* Author : Robert D Campbell *)

IMPORT Models, Ports, Properties, StdClocks, Stores, Views;

CONST
  mm      = Ports.mm;
  wid     = 65 * mm;
  hgt     = 35 * mm;

  lightBlue = 15921766;

TYPE
  View      = POINTER TO RECORD (Views.View)
              xPos, yPos : INTEGER;
              view       : Views.View;
              c          : Context
            END;

  Context = POINTER TO RECORD (Models.Context)
              view      : Views.View; (* contained view *)
              wid, hgt : INTEGER      (* size of contained view *)
            END;

(** Context code **)

PROCEDURE (c : Context) ThisModel () : Models.Model;
BEGIN
  RETURN NIL
END ThisModel;

PROCEDURE (c : Context) GetSize (OUT w, h : INTEGER);
BEGIN
  w := c.wid; h := c.hgt
END GetSize;

PROCEDURE (c : Context) Normalize () : BOOLEAN;
BEGIN
  RETURN TRUE
END Normalize;

PROCEDURE (v : View) Restore (f : Views.Frame; l, t, r, b : INTEGER);
VAR
  g : Views.Frame;
  w, h : INTEGER;
BEGIN
  v.context.GetSize (w, h);
  f.DrawRect (0, 0, w, h, Ports.fill, lightBlue);

  IF v.c # NIL THEN
    g := Views.ThisFrame (f, v.c.view);
    IF g = NIL THEN
      Views.InstallFrame (f, v.c.view, v.xPos, v.yPos, 0, TRUE);
      g := Views.ThisFrame (f, v.c.view)
    END;
    v.c.view.Restore (g, l, t, r, b)
  END;

  f.DrawRect(0, 0, w, h, 0, Ports.black)
END Restore;

PROCEDURE (v : View) HandlePropMsg (VAR msg : Properties.Message);

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```
BEGIN
  WITH msg : Properties.SizePref DO msg.w := wid; msg.h := hgt
  |   msg : Properties.ResizePref DO msg.fixed := TRUE
  ELSE
  END
END HandlePropMsg;
```

```
PROCEDURE NewView () : View;
VAR
  v : View;
  c : Context;
BEGIN
  NEW (v); v.view := StdClocks.New ();
  v.xPos := 20 * mm;
  v.yPos := 5 * mm;
  NEW (c); v.c := c;
  c.wid := 25 * mm;
  c.hgt := 25 * mm;
  c.view := v.view;
  c.view.InitContext (c);
  Stores.Join (v, v.view);
  RETURN v
END NewView;
```

```
PROCEDURE Deposit*;
BEGIN
  Views.Deposit (NewView ())
END Deposit;
```

```
END RdcViewInView.
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- ❗ DevDebug.Unload
- ❗ "RdcViewInView.Deposit; StdCmds.PasteView"

