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

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

CONST
  wid  = 85 * Ports.mm;
  hgt  = 35 * Ports.mm;

  lightBlue = 15921766;

TYPE
  Model = POINTER TO RECORD (Models.Model)
    v : Views.View      (* contained view *)
  END;

  View = POINTER TO RECORD (Views.View)  (* container view *)
    m : Model
  END;

  Context = POINTER TO RECORD (Models.Context)
    xPos, yPos, wid, hgt : INTEGER      (* 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;

(** View code **)

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

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

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PROCEDURE (v : View) HandlePropMsg (VAR msg : Properties.Message);
BEGIN
  WITH msg : Properties.SizePref DO msg.w := wid; msg.h := hgt
  | msg : Properties.ResizePref DO msg.fixed := TRUE
  ELSE
  END
END HandlePropMsg;

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PROCEDURE NewView () : View;
VAR
  m : Model;
  view : View;
  c : Context;
BEGIN
  NEW (view); NEW (m); view.m := m; m.v := StdClocks.New ();

  NEW (c);
  c.wid := 25 * Ports.mm; (* Clock size *)
  c.hgt := 25 * Ports.mm;
  c.xPos := 30 * Ports.mm; (* Clock position *)
  c.yPos := 5 * Ports.mm;

  m.v.InitContext (c); Stores.Join (view, m.v); RETURN view
END NewView;

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

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END RdcViewInModel.

- ❗ DevDebug.Unload
- ❗ "RdcViewInModel.Deposit; StdCmds.PasteView"

