Subject: how to force ImageView snippet to update in RT
Posted by ebojd on Thu, 03 May 2007 15:47:55 GMT
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I have some code that will eventually be a Real-Time graphics display. I am able to generate the proper images (via a libized version of Gnuplot)... I used a snippet of ImageView to load the image into a window:

```
void
DCP::Load(const char *filename)
{
 img.SetImage(Null);
 FileIn in(filename);
 One<StreamRaster> r = StreamRaster::OpenAny(in);
 if(!r)
  return;
 Size rsz = img.GetSize();
 Size isz = r->GetSize();
 if(isz.cx >= rsz.cx || isz.cy >= rsz.cy) {
  if(isz.cx * rsz.cx < rsz.cy * isz.cy)
   rsz.cx = isz.cx * rsz.cy / isz.cy;
  else
   rsz.cy = isz.cy * rsz.cx / isz.cx;
  ImageEncoder m;
  Rescale(m, rsz, *r, isz);
  img.SetImage(m);
 }
 else
  img.SetImage(r->GetImage());
}
```

This works fine if I want to plot or display a single dataset, but my when my simulator loads up a dataset in a loop (which calls the processing routines and then loads the image):

```
void
DCP::rt_sim()
{
 int i, ret;
 for(i=0;i<=320;i++)
 {
  char fname[256];

  sprintf (fname,"%s%02d.dat","./gauss_test",i%32);

  ret  = raw_range->read (fname, 0);
```

```
  ret |= raw_dat->read   (fname, 1);
  if (ret) {
        PromptOK("[2R/ ERROR:]&parsing 2D input file in rt_sim");
        return;
           }

  raw_spectrum();
 }
}
```

nothing is displayed. I assume that the problem is that the load() method does not actually update the display and has to wait until control is given back to the main window.

My questions is: is there some trick to force an update the subwindow?

Thanks,

  EBo --

Subject: Re: how to force ImageView snippet to update in RT
Posted by ebojd on Fri, 04 May 2007 13:35:13 GMT
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FYGI,

Well... I seem to have found a solution that works. I am not sure that it is the best, or for that matter safest, but it does work as expected. If anyone would care to comment...

In the code that processes the real-time data I simply added the following:

```
  bool b;
  Ctrl::ProcessEvents(&b);
```

It works on the Linux testbed -- soon to copy over to Win-XP and test again.

  EBo --

Subject: Re: how to force ImageView snippet to update in RT
Posted by mirek on Fri, 04 May 2007 18:02:22 GMT

ebojd wrote on Thu, 03 May 2007 11:47

```
sprintf (fname,"%s%02d.dat","./gauss_test",i%32);
```

```
String fname = Format("%s%02d.dat","./gauss_test",i%32);
```

(Could not resist).

As for updates: Yes, to get window repainted, it needs to recieve events. Call ProcessEvents() is exactly what you need here.... (no need to supply quit IMO).

Mirek