Subject: Re: Real time signal processing using PV-WAVE
Posted by rivers on Tue, 16 Nov 1999 08:00:00 GMT
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In article <382f0f43.282258890@news.remarq.com>, dibanella@usa.net (Anna Maria di Banella) writes:
> Dear all,
>
> I am a new user of PV-WAVE and I'm in trouble because I have
> to process signals in real time but I have no lidea about the way to
> do this. Does anyone know if it is possible to acquire data directly
> using PV-WAVE and process them, for example, every two or three
> seconds ?

I have done this a lot using LINKNLOAD in PV-WAVE, which is almost identical to CALL_EXTERNAL in IDL. You need to do the following:

- Make a C "wrapper" which calls your existing data collection routines. This
  wrapper is necessary to convert between the way LINKNLOAD passes its
  arguments and the way your existing code will pass arguments.

- Link this C wrapper and your existing routines into a DLL (Windows) or
  shareable object (Unix).

- Write PV-WAVE routines to call the DLL or shareable object.

Using this technique I have done lots of data acquisition and display using PV-WAVE and IDL. Update rates faster than 100 Hz are easily achieved, depending on how much data you need to display.

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Mark Rivers
CARS
Univ. of Chicago
5640 S. Ellis Ave.
Chicago, IL 60637
and
Argonne National Laboratory   (630) 252-0422 (office)
Building 434A   (630) 252-0405 (lab)
9700 South Cass Avenue   (630) 252-1713 (beamline)
Argonne, IL 60439   (630) 252-0443 (FAX)