
Subject: Re: IDL & Tomography
Posted by [Mark Rivers](#) on Mon, 29 Apr 2002 02:28:14 GMT
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Ale <pasini@libero.it> wrote in message
news:THZy8.109733\$SR5.2691452@twister1.libero.it...
> Anyone is developping applications for tomography recontruction to share
> ideas and code ?

I have a set of tomography preprocessing, reconstruction and visualization
routines (with a GUI front-end) available at:

<http://www.cars.uchicago.edu/software/tomography>

There's a link to a tar file there.

Most of the routines are written in IDL. The actual reconstruction is done
in a C library, called from IDL. On Windows the C code calls the Intel Math
Kernal Library to greatly speed up the FFTs. The latest release of the Math
Kernal Library also runs on Linux, but I have not tested that yet.

The reconstruction code is for parallel beam CT, not fan beam or cone beam.
As an indicator of the speed, the time to reconstruct a 650x515 slice with
720 projections is about 1.25 seconds.

Cheers,
Mark Rivers
