Sebastian (s@visita2.die.upm.es) writes:

> some figures for a 256^3 volume (MRI) into a 500x500 window:
>
> "highest quality" settings:
> RENDER_STEP=[1,1,1],INTERPOLATE=1,LIGHTING_MODEL=1,TWO_SIDED =1
>
> "medium quality" settings:
> RENDER_STEP=[2,2,5],INTERPOLATE=0,LIGHTING_MODEL=0,TWO_SIDED =0
>
> Pentium IV 2.4 GHz, 512MB, W2K, IDL 5.6
> highest quality: 11-17s
> medium quality: 0.5-1.0s
>
> Pentium III mobile 800 MHz, 256MB, Linux, IDL 5.5
> highest quality: 35-50s
> medium quality: 2.0-3.0s

Is this with hardware rendering turned on or off?
If on, what kind of graphics card are you using?

Can you make the data and programs available for
independent testing?

> For a comparison: The same data set with similar settings and similar
> results in VTK on the 800 MHz Linux computer takes about 5 +- 1 seconds -
> and VTK provides an "automatic" level of detail mechanism for real-time
> but low-quality rendering while rotating the data set.

Although IDL doesn't provide "automatic" low-quality rendering
while rotating, it is easy enough to provide it yourself. See
the "Drag Quality" settings on FSC_Surface, for example.

  http://www.dfanning.com/programs/fsc_surface.zip

Cheers,

David
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
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