Subject: Re: contour plot at max z of surface in obj. graphics Posted by davidf on Thu, 20 Jan 2000 08:00:00 GMT

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Todd Bowers (tbowers@nrlssc.navy.mil) writes:

- > I'm adding functionality to D Fanning's xsurface program. What
- > I'm doing is adding the ability to import a different data set
- > and vis. it as a contour positioned at the max z axis value (i.e.,
- > on "top" of the surface object, a la Fanning's book p. 100 or the
- > show3 procedure, both in direct graphics). Since my vis. space is
- > normalized with his Normalize procedure, I thought it would be as
- > simple as setting geomZ=0.5, the "top" of z, and maybe the setting
- > planar=1. Doesn't work. 1 data set ranges ~ -300 +200 in z value,
- > while the other ranges ~ 0 5. Screwing around with the geomZ value
- > doesn't give me a good indication of it's behavior because it the
- > contour seems to move up and down in different ways depending on
- > which data I choose as the surface and which I choose to overlay
- > as the contour. Can anybody enlighten me on this?

Uh, no, I can't enlighten you. I'm teaching an object graphics class this week and I have my hands full keeping up there. :-)

But I, too, have fooled around with the XSurface functionality, and here is an example where I added a Contour plot and you can move it up and down the Z axis by means of a slider.

ftp://www.dfanning.com/pub/dfanning/outgoing/misc/surf_conto ur.pro

My comments in the code suggest I was trying to set the contour plot's GEOMZ property. However, it looks like I gave up on the idea in the final code, because what I ended up doing is putting the contour plot in its own model and just translating that. I'd have to investigate why I did this, but I just don't have the time this week. Perhaps you can sort it out and let us know. :-)

Cheers.

David

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David Fanning, Ph.D. Fanning Software Consulting

Phone: 970-221-0438 E-Mail: davidf@dfanning.com

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