Subject: zoom into float image data?
Posted by amacphee on Wed, 27 Sep 2000 07:00:00 GMT
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Hi,
I've got arrays of float where the interesting data lies in a small range. For example, the raw data ranges from -123.45 to 5678.9, whilst the interesting stuff lies between 123.4 and 125.6. For each set the interesting data is not necesserily in the same range.

I'm trying to write something that:
1) displays the image bytescaled;
2) uses xloadct to stretch the colour table to home in on the interesting data;
3) re-bytescales the data with new min and max values determined from the scaling of the colour table.
4) Iterate 3 and 4 until I've zoomed in on the interesting data.

I thought I could use the numbers on the stretch bars in xloadct as feedback to re-bytescale my input data, but these numbers aren't returned by xloadct. I then thought I could use tvlct to read the rgb values after stretching, then use e.g. min(where(r>0)) and max(where(r<255)) to find how much I had stretched the table. However, I expect I would need to do the same for green and blue and I can't see then how this would correspond to the 'stretch' numbers in xloadct if the colour table wasn't linear in all three colours.

Then I wondered if anyone else had gone around this loop and maybe had come up with a far slicker, tried and trusted solution :-)

Any ideas?
Thanks,
Andrew