

---

Subject: Accurate/fast interpolation

Posted by [Steve\[5\]](#) on Tue, 04 Sep 2007 11:32:28 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Does anybody have a suggestion of speedups that might help in the following scenario...

In a series of images there is a very small shift between successive frames due to orbital dynamics on a spacecraft.

For each image I can translate all the pixel locations to and from a common reference frame. The shift between adjacent frames is sub pixel [typical value about 0.2].

What I am trying at the moment is to set one image as a common reference, covert all the others to sub pixel positions on that reference frame and then use triangulate and trigridd to interpolate image values onto this common reference frame. This seems to work but is painfully slow [trigridd is fine triangulate takes many seconds].

I just wondered since my data is nearly on the right grid to start with if there were a quicker way to do this?

Any help gratefully appreciated

S.R.Crothers [at] rl.ac.uk

---