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Subject: INTERPOL

Posted by [Roland Bammer, Ph.D.](#) on Wed, 03 Oct 2001 22:24:28 GMT

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Hi all,

I have encountered some problems (some data fluctuations at the edges) with the INTERPOL-Function:

when  $\text{warp\_x}(0) > 0$  or  $\text{warp}(\text{ydim}-1) < \text{ydim}-1$  in the code below.

Moreover, it seems that the overall signal values are shifted towards higher values. Restricting the values of regrid to  $\text{CEIL}(\text{warp\_x}(0)) \leq \text{regrid} \leq \text{FLOOR}(\text{warp}(\text{ydim}-1))$  (i.e. no extrapolation) did not help at all.

Any suggestions?

```
PRO regriding, in_vec, new_vec, ydim, mag, shift_y
x0    = ydim/2.0 - 0.5
regrid = FINDGEN(ydim)
x1 = x0 + (regrid-x0)*mag
warp_x = x1 + shift_y
new_vec = INTERPOL(in_vec,warp_x,regrid,/SPLINE)
END;
```

Roland.

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