



Blur, PSF1

Blur, PSF2

Bin / 4

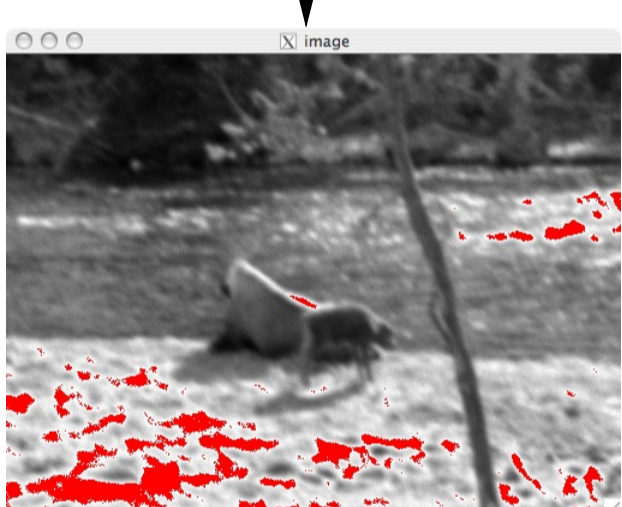
**Random warp
(4 corner control
points)**

**intensity x2,
threshold @ 95%,
mark saturated
pixels with NaN**

Bin / 4

Poisson noise

Poisson noise



image

reference

COREGISTRATE

compare results

```

idl - %2
imx = -0.378938 511.633 -0.327275 511.594
imy = -0.385555 -0.386526 383.661 383.618
CHISQ_BADNESS: chisq = 333851.86 chisq_reduced = 1.9150129
imx = -0.378770 511.633 -0.327272 511.594
imy = -0.385508 -0.386302 383.661 383.618
CHISQ_BADNESS: chisq = 333848.06 chisq_reduced = 1.9150021
imx = -0.378849 511.633 -0.327198 511.594
imy = -0.385457 -0.386496 383.661 383.618
% COREGISTRATE: Alignment completed at Wed Jul 2 09:07:27 2008
ncalls = 601
Here is where COREGISTRATE thinks the optimum alignment is:
CHISQ_BADNESS: chisq = 333847.52 chisq_reduced = 1.9149880
imx = -0.378679 511.633 -0.327123 511.594
imy = -0.385468 -0.386473 383.661 383.618
Here is where I think the optimum alignment should be:
CHISQ_BADNESS: chisq = 333912.30 chisq_reduced = 1.9153596
imx = -0.375000 511.625 -0.375000 511.625
imy = -0.375000 -0.375000 383.625 383.625
% Compiled module: MEAN.
% Compiled module: MOMENT.
RMS error in x: 0.0289240; in y: 0.0198374; in r: 0.0350731
Test included Poisson noise.
The fraction of unsaturated pixels in image was: 0.950000
% Program caused arithmetic error: Floating divide by 0
% Program caused arithmetic error: Floating underflow
IDL>
  
```

