Subject: Smooth and /EDGE_TRUNCATE
Posted by Fabzi on Tue, 29 Apr 2014 14:35:39 GMT
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IDLers,

I've lost 3 hours of my life on this. Can someone explain me why the /EDGE_TRUNCATE keyword has an incidence on the results WITHIN the image, where the kernel meets no edge?

```
pro test_smooth

  ; make an array with a nan in the center
  array = FINDGEN(5,5)
  array[2,2] = !VALUES.F_NAN

  print, ' Exp 1'
  print, 'Expected', MEAN(array[1:3,1:3], /NAN)
  print, 'No truncate', (smooth(array, 3, /NAN))[2,2]
  print, 'Truncate', (smooth(array, 3, /NAN, /EDGE_TRUNCATE))[2,2]

  ; so far so good. Add a NaN somewhere else
  array[1,1] = !VALUES.F_NAN
  print, ' Exp 2'
  print, 'Expected', MEAN(array[1:3,1:3], /NAN)
  print, 'No truncate', (smooth(array, 3, /NAN))[2,2]
  print, 'Truncate', (smooth(array, 3, /NAN, /EDGE_TRUNCATE))[2,2]

end
```

Thanks a lot!

Fabien