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Subject: Re: smooth function and rounding error  
Posted by [lbusett@yahoo.it](mailto:lbusett@yahoo.it) on Fri, 18 Dec 2009 13:05:32 GMT  
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Hi Simona,

in the Help of the smooth function it is said that "If a Width value is even, then Width+1 will be used instead."  
so I think that if you are using an even number as width you should modify both the line:

```
y[i]=total(A[i-width/2:i+width/2-1])/width
```

with

```
y[i]=total(A[i-width+1/2:i+width+1/2-1])/float(width+1)
```

, and the line:

```
for i=(width)/2,n-(width)/2-1,1 do begin
```

with

```
for i=(width+1)/2,n-(width+1)/2-1,1 do begin
```

Otherwise, you can leave the program as in the original post and just add the command "width = width + 1" before the for loop.

Hope this helps,

Lorenzo

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