
Subject: simulating a jet like feature

Posted by [K.Chandrashekar Redd](#) on Wed, 01 Aug 2012 17:21:16 GMT

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Can any one help with a simulating a jet like feature with sinusoidal oscillations along the length of the jet... I tried I am attaching the programme here..... but sinusoidal feature is missing and I could not do

```
npx=600
```

```
npv=300
```

```
npt=100
```

```
im=fltarr(npx,npv,npt)
```

```
for k=0,npv-1 do begin
```

```
for j=0,npt-1 do begin
```

```
im[149+(k mod 50)-j:179+(k mod 50)-j,k,j]=25.
```

```
endfor
```

```
endfor
```

```
help,im
```

```
window,0
```

```
!p.multi=[0,1,2]
```

```
plot_image,reform(im(*,*,10))
```

```
plot_image,reform(im(*,*,99))
```

```
!p.multi=0
```

```
; stop
```

```
tmp=im[*,*,*]
```

```
nf=n_elements(tmp[0,0,*])
```

```
x1=50.
```

```
x2=200.
```

```
y1=100.
```

```
y2=100.
```

```
dy=abs(y2-y1)
```

```
dx=abs(x2-x1)
```

```
dd=sqrt(dy^2+dx^2)
```

```
;for calculating xt-values
```

```
if x1 lt x2 then xx=x1 else xx=x2
```

```

if y1 lt y2 then yy=y1 else yy=y2

if abs(x1-x2) lt 75 and abs(y1-y2) lt 75 then np=100 else np=151

x=fltarr(np)
y=fltarr(np)

for i=0,np-1 do begin
x[i]=xx+(abs(x1-x2)/np)*i
y[i]=yy+(abs(y1-y2)/np)*i
endfor

if x1 gt x2 then x=reverse(x)
if y1 gt y2 then y=reverse(y)

xt=fltarr(nf,np)
int=fltarr(np)
for j=0,nf-1 do begin
  for k=1,np-2 do begin
    int[k]=total(tmp[x[k]-5:x[k]+5,y[k],j],1)
  endfor
  if y1 gt y2 then int=reverse(int)
  xt[j,*]=int
endfor

window,2
plot_image,xt

end

```
