

```

1 function [x, y, u, v] = formatData(coordx, coordy, datax, datay)
2
3     tailleX = 1;
4     for i = 1:(size(coordx)-1)
5         if(coordx(i) ~= coordx(i+1))
6             tailleX = tailleX+1;
7         end
8     end
9
10    tailleY = 1;
11    while coordy(tailleY) < coordy(tailleY+1)
12        tailleY = tailleY+1 ;
13    end
14
15    y = coordy(1:tailleY);
16    x = zeros(tailleX,1);
17
18    for j = 1:tailleX
19        x(j) = coordx(1+(j-1)*tailleY);
20    end
21
22    u = zeros(tailleX, tailleY);
23    v = zeros(tailleX, tailleY);
24
25    for i = 1:tailleX
26        for j = 1:tailleY
27            u(i,j) = datax( (i-1)*tailleY + j);
28            v(i,j) = datay( (i-1)*tailleY + j);
29        end
30    end
31 end

```