

```

delta = 1/nw;
fprintf('delta = %.15f \n',delta)
if delta < 10^(-9)
    fprintf('** Warning, delta too small, program does not converge ** \n')
end
%
lamb = lam(1:p,1);
mu = lam(p+1:p+q,1);
b = 0;
tols = 10^(-10);
% tols < lambda_i; finds the nonzero lambda_i
[lambnz,numsvl1] = countmlu2(lamb,tols);
% tols < mu_i; finds the nonzero mu_j
[munz,numsvm1] = countmlv2(mu,tols);
fprintf('numsvl1 = %d ',numsvl1)
fprintf(' numsvm1 = %d \n',numsvm1)

if numsvl1 > 0 && numsvm1 > 0
    sx1 = zeros(n,1); num1 = 0;
    sx2 = zeros(n,1); num2 = 0;
    for i = 1:p
        if lambnz(i) > 0
            sx1 = sx1 + u(:,i);
            num1 = num1 + 1;
        end
    end
    for j = 1:q
        if munz(j) > 0
            sx2 = sx2 + v(:,j);
            num2 = num2 + 1;
        end
    end
    b = (w'*(sx1/num1 + sx2/num2))/2;
    fprintf('b = %.15f \n',b)
else
    fprintf('** Not enough support vectors ** \n')
end

if n == 2
    [ll,mm] = showdata(u,v);
    if numsvl1 > 0 && numsvm1 > 0
        showSVMs2(w,b,1,ll,mm,nw)
    end
end

```