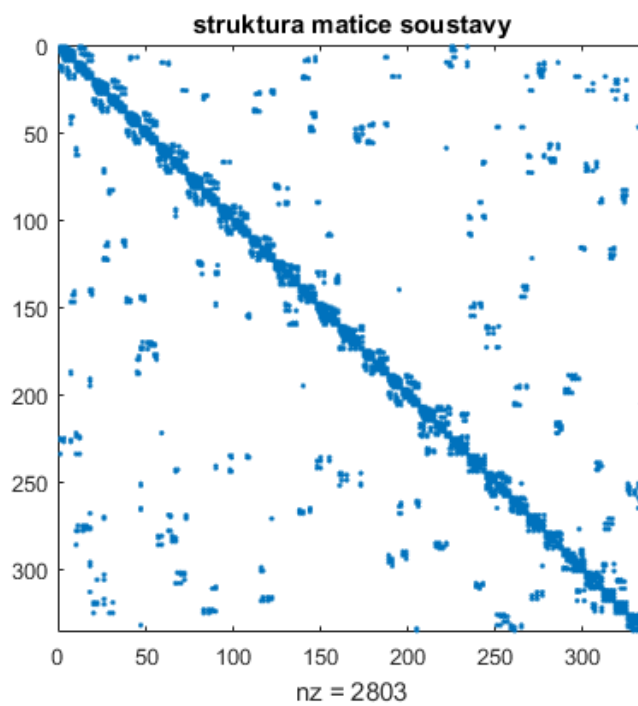


Porovnání Jacobiho a Gauss-Seidelovi metody

```
% nahrani soustavy
load 335x335.mat

% vizualizace struktury matice soustavy
figure;
spy(A)
title('struktura matice soustavy')

% vektor pocatecniho reseni
x0 = zeros(length(b), 1);
```



Jacobiho metoda

```
tic
x = jacobi(A,b,x0,1e-4);
toc
sum(A*x-b)
```

Elapsed time is 16.115649 seconds.

```
ans =
-3.7192e-10
```

Gauss-Seidelova metoda

```
tic
x = gauss_seidel(A,b,x0,1e-4);
toc
sum(A*x-b)
```

Elapsed time is 10.390105 seconds.

```
ans =
-1.8531e-10
```