

```
% dlmread funktioniert wieder nicht
```

```
A = [60,62,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,...  
      84,85,86,87,88,89,90,91,92,93,97,98,104,103];  
B = [2,1,1,2,4,2,3,5,5,2,3,5,5,5,2,4,8,4,5,1,1,7,3,2,1,3,3,2,2,1,1,1,1,...  
      1,1,1];
```

```
mit = dot(A, B) / sum(B);
```

```
sA = A - mit;
```

```
ssA = sA.^2;
```

```
sigma = sqrt((1/(sum(B)-1))*dot(ssA,B));
```

```
disp(mit)
```

```
disp(sigma)
```

```
gaussvert = normpdf(A,mit,sigma);
```

```
% Plotten
```

```
title('Verteilung der Zählrate je 2s');
```

```
plotyy(A, B, A, gaussvert, 'bar', 'plot');
```

```
ylabel('Häufigkeit');
```

```
hold on;
```

```
stem(mit, 10);
```

```
legend('Messwerte', 'Gauss Verteilung', 'Mittelwert');
```

```
hold off;
```