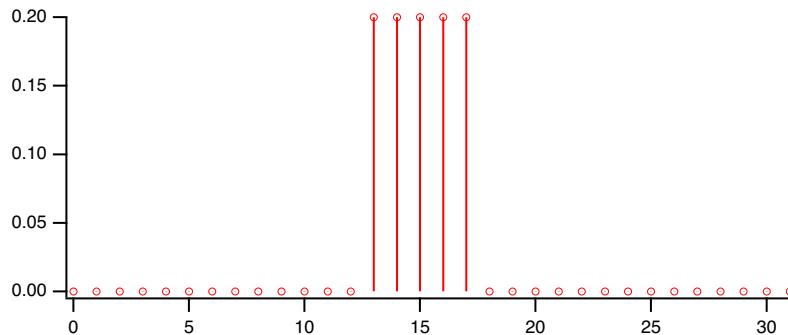


Box Smoothing

Box smoothing is similar to a moving average, except that an equal number of points before *and after* the smoothed value are averaged together with the smoothed value. The Points parameter is the total number of values averaged together. It must be an odd value, since it includes the points before, the center point, and the points after. For instance, a value of 5 averages two points before and after the center point, and the center point itself:

```
Make/O/N=32 wave0=0; wave0[15]=1; Smooth/B 5,wave0      //Smooth impulse
Display wave0; ModifyGraph mode=8,marker=8           // Observe coefficients
```



The following graph shows the frequency response of the box smoothing algorithm.

