This procedure, readSPIFIdata(file, pixel), accepts as inputs the coadded scan file name (string enclosed in quotes) and the pixel number (integer). It returns the global variables Xdata and Ydata, which are each 16 element arrays containing the corresponding X and Y values of the given pixel in the given scan file, respectively. It reads coadded scans imported from Thomas Nikola's MatLab program on the SPIFI lab computer and placed in C:/Documents and Settings/Tom Oberst/Desktop/SPIFI & ZEUS/SPIFI observing plan/Observing Data/Original Data Files/TomDR 1-3 -06/deglitch1x3+RMSweight/. It assumes that these have been converted to ASCII and are arranged in a Bins x 25 array (this is done using Nikola's "col2pix" MatLab command. It also assumes that this data has been deglitched once at the 3 sigma level, and that it includes the coadded scans listed in the file name, weighted by each scan's individual RMS noise.

```
> readSPIFIdata:=proc(path, Xfile, file, pixel)
> local path_and_filename, data, i:
> global X, Y:
> path_and_filename:=cat(path,file);
> X:=readdata(cat(path,Xfile)):
> data:=readdata(path_and_filename, 26):
> for i from 1 to nops(data) do Y[i]:=data[i,pixel] od:
> end proc:
```