It seems like you haven't defined wgrid in the procedure
interpolatedsixteen.pro.

linterp is not a standard idl function. Why not use interpol instead
(for the difference see the header of linterp.pro)?

> Also, in each of our 8 data sets, there is an increment of wavelength
> values where the value of the flux is 0, which will make the average
> of all 8 messed up. Do you have any ideas how to write a loop that
> goes through all of the wgrid values and averages the values of the
> interpolated flux values, but skips the flux values that are 0 and
> continues to the next? Is there a skip command? Would a where command
> work the best?

If you need to find mean of an array excluding elements equal to some
variable x (in your case x = 0) you don't need a loop. Just do

mask = array NE x
y = TOTAL(array*mask)/TOTAL(mask)