It sounds like you want

IDL> topscans_avg = mean(topscans,dimension=2)

On Tuesday, July 21, 2015 at 12:50:10 PM UTC-4, Wayana Dolan wrote:
> So I've got an array called 'topscans' which is [333,9], so I am looking through 9 different scans, and each scan has 333 spectral points. I want to average each spectral point for the 9 scans. For example I want to average the first spectral point for all 9 runs, then the 2nd, then the third etc. So that in the end I have a set of 333 spectral points which represents an average of all 9 scans.
>
> Thanks for your help!