>   PLOT, Congrid(smallarray, N_Elements(largearray)), largearray

If I do that I get the same result:
PLOT, CONGRID(smallarray, N_ELEMENTS(largearray), 1, 1) <- With our
without the INTERP keyword

I want to *stretch* the small array so that it has the same number of
elements as the large one so I can plot it and all the new points to
be interpolated linearly between each point. Evenly spaced points is
fine for my purposes.

Ryan.