Suggested Wording for Invariant (charget) . Just before the start of the ith iteration of the inner loop, for all K such that start b. K.J. the product terms terms [i].coef\* terms [k].coef

\* 2 (terms [i].export terms [x].export) have been correctly computed and stored in

the global terms [] array by the attach() function in their original order. Notes: . This form clarifies which coefficients and which exponents are being

multiplied · It avoids ambiguity around whether you are referring to the Kth term in the resulting product or the Kth index of polynomial B.

. It keps invariant inductive: stating correctness upto j-1,

Initialization: Just before the 1st iteration of the loop, j=startB. The range start book Ki=start b doesn't make sense. ... Loop invariant trivially Maintenance: Let, just before the start of the ith iteration of the loop where

j=2, startbs/2/finishB, the loop invariant holds.:. YK, startbs/K/2, the product terms terms[i]. coef\* terms[K]. coef\* (7 (terms[i]. expenterms[K]. expen) have been correctly computed and stored in the global terms [] array by the New, j= xl. By original assumption, we know, YK, start B< K/2, YL, XLX finish,

terms [x]. expon/terms [x]. expon/terms[1].expon . (1)

: [terms[i].expon+terms[k].expon>terms[i].expon+terms[x].expon> (2)
terms[i].expon+terms[d].expon