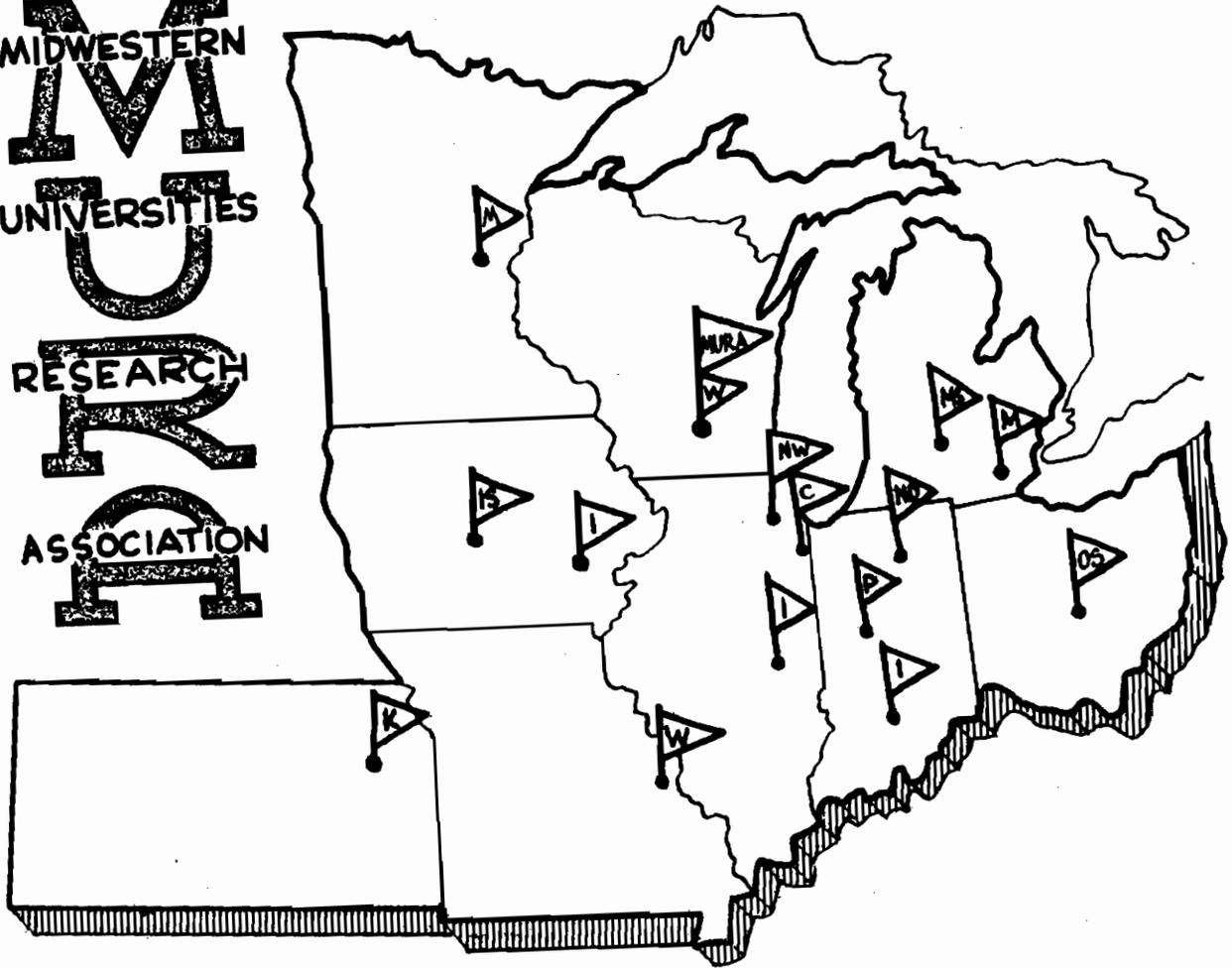




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REPORT

FORSUPS
(Programme 99)
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FORSUPS (PROGRAMME 99)

Jesse C. Anderson

Given two sets of FOROCYL potentials, compute the following sums:

$$\Gamma \sum_l f_l^2, \quad \Gamma \sum_l f_l g_l$$

where Γ is a scale factor, viz., $1/ab$ (cf. FOROCYL).

Both sets of potentials must be in the MAIN phase of convergence and have a_M and b_M respectively equal. All computation is carried out in double precision, and to minimize loss of significance through truncation of the final sum in the printing process, all leading zeros are eliminated by multiplication by the necessary power of two.

Output has the form

I	00001	Programme no.	
I	00002	ID of F deck	ID of G deck
I	00003	a_M	b_M
I	00004	$2^n \sum_n f^2$	$2^m \sum_m fg$
I	00005		

END

If desired the $\sum f^2$ alone may be computed. Agenda may consist only of a memo to the expediter containing the ID numbers of the two decks of potentials.