

*Program Name:* **bi2aeq3**

*Language:* Fortran

*Objective:* Computation of a maximally increased nominal significance level for an improved nonrandomized version of the exact Fisher type test for equivalence

*Input<sup>1)</sup>:*

M	size of Sample 1
N	" " " " 2
MAXH	maximum number of steps to be performed in the interval-halving part of the algorithm
RHO1	lower equivalence limit to the odds ratio
RHO2	upper " " " " " " " " " " " "
ALPHA	level of significance
SW	width of the lattice of points on the boundary of the hypotheses to be searched through for the maximum of the (unconditional) rejection probability
TOLRD	distance of the left- and rightmost point of the lattice from the boundaries of the unit interval
TOL	target value of the absolute difference between exact size and nominal significance level

*Output<sup>2)</sup>:*

M	value read from input file
N	" " " " " " "
RHO1	" " " " " " "
RHO2	" " " " " " "
ALPHA	" " " " " " "
SW	" " " " " " "
TOLRD	" " " " " " "
TOL	" " " " " " "
MAXH	" " " " " " "
ALPH_0	nominal significance level to be used in an improved nonrandomized test of size $\leq \text{ALPHA} + \text{TOL}$
NHST	number of interval-halving steps carried out
SIZE	exact size of the nonrandomized test at nominal level ALPH_0

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<sup>1)</sup> to be read from the file specified in the first OPEN statement

<sup>2)</sup> written to the file specified in the second OPEN statement