

*Program Name:* **gofhwex\_1s**

*Language:* SAS

*Objective:* Computation of the critical constants of the exact UMPU test for absence of a substantial deficit of heterozygotes as compared with a HWE-conform SNP genotype distribution

*Input:*

ALPHA	significance level
N	sample size
S	observed total number of A-alleles
DELO	noninferiority margin

*Output:*

N	see list of input parameters
S	" " " " " " " " "
ALPHA	" " " " " " " " "
DELO	" " " " " " " " "
C	lower critical bound to $X^2$
GAM	probability of a randomized decision in favor of nonexistence of a substantial deficit of to be taken if it occurs that $X^2=C$