

*Program Name:* **gofhwex**

*Language:* SAS

*Objective:* Computation of the critical constants of the exact UMPU test for approximate compatibility of a SNP genotype distribution with HWE

*Input:*

ALPHA	significance level
N	sample size
S	observed total number of A-alleles
DEL1	left-hand equivalence margin
DEL2	right-hand equivalence margin

*Output:*

N	see list of input parameters
S	" " " " " " " " "
ALPHA	" " " " " " " " "
DEL1	" " " " " " " " "
DEL2	" " " " " " " " "
GAM1	probability of a randomized decision in favor of compatibility with HWE to be taken if it occurs that $X_2=C_1$
GAM2	probability of a randomized decision in favor of compatibility with HWE to be taken if it occurs that $X_2=C_2$
C1	left-hand limit of the critical interval for $X_2$
C2	right-hand " " " " " " " " " " "