

## Patch for StatXact PROCs version 6 for Windows

PROC STRATIFY (ODDS/EX command): For certain types of data, the two-sided p-value and its confidence limits with RBG variance in Mantel-Haenszel inference are not shown properly in version 6.2. These are fixed with this patch.

### Example:

```
DATA XYZ;
INPUT ROW COL TOTAL;
CARDS;
1 1 8
1 2 0
2 1 4
2 2 4
;

PROC STRATIFY DATA=XYZ;
OD/EX;
RO ROW;
CO COL;
WEIGHT TOTAL;
RUN;
```

### Results:

#### Before patch:

```
Mantel-Haenszel Inference:
  Common Odds Ratio estimate:      Invalid
  Two-sided p-value:              0.0000 (with RBG variance)
                                   0.0253 (M-H variance)
  95.00% CI with RBG variance: (  -9999.0000 ,  -9999.0000)
```

#### After patch:

```
Mantel-Haenszel Inference:
  Common Odds Ratio estimate:      Invalid
  Two-sided p-value:              Undefined (with RBG variance)
                                   0.0253 (M-H variance)
  95.00% CI with RBG variance: (   Undefined ,   Undefined)
```

PROC BINOMIAL (PD/EX ONE STD command): With Gamma=0, the upper confidence limit is not shown properly. This is fixed now.

**Example:**

```
DATA BINOM;
INPUT ROW COL TOTAL;
CARDS;
1 1 0
1 2 10
2 1 10
2 2 0
;

PROC BINOMIAL DATA=BINOM GAMMA=0;
PD/EX ONE STD ;
PO ROW;
OU COL;
WEIGHT TOTAL;
RUN;
```

**Results:**

**Before patch:** Exact upper confidence limit is shown 0.0000.

Method	1-sided(Pr{T .GE. t})	P-value 2*1-sided	95.00% Conf. Interval for pi_2-pi_1
Asymp	0.0000	0.0000	( 0.6636, 1.0000)
Exact	0.0000	0.0000	( 0.6631, 0.0000)

**After patch:** Exact upper confidence limit is shown as 1.

**Results:**

Method	1-sided(Pr{T .GE. t})	P-value 2*1-sided	95.00% Conf. Interval for pi_2-pi_1
Asymp	0.0000	0.0000	( 0.6636, 1.0000)
Exact	0.0000	0.0000	( 0.6631, 1.0000)

PROC SXPOWERBIN (DIST\_FILE Option): Exact distribution file is not properly created in version 6.2. This is fixed now.

**Example:**

```
PROC SXPOWERBIN;
K 2;
PALPHA 0.05;
CH/EX DIST_FILE=FILE1;
H0 0.2;
H1 USER/VAL=0.8;
N 5;
RUN;
```

**RESULTS:**

**Before Patch:** In the distribution output, all the probabilities are shown as 0.

**After Patch:** In the distribution output, all the probabilities are properly shown.

