The following bugs have been detected in NONMEM 7.6.0

1) When -O3 optimizing compile option (or any -Ox option where x>0) is used for gfortran version 13 or greater, FOCE does not efficiently estimate parameters. This problem occurs for all NONMEM versions 7.6.0 or earlier, for gfortran version 13 or greater, and is caused by the newer gfortran compilers interpreting FORTRAN INTENT() statements more strictly. Work-around for nm760 has been implemented in the installer dated 20-OCT-2026, in which routines ZXMIN1, ZXMIN2, ZXMIN2B, OBETA2, DGEAR1, ZSPOW1, and ZSPOW2 are compiled without the -O3 option.

2) When $EST METHOD=NUTS is used in two or more $PROB setups within the same control stream, an "already allocated" error occurs on the subsequent $PROB setups. This problem has been present since NONMEM 7.5.0. The work-around is to execute just one $PROB section per control stream file, when there is a NUTS estimation.

3) If NELDER is specified as the analysis method, and OFVDIMSCALED is not specified on the first $DESIGN record, then OFVDIMSCALED is turned on at the second $DESIGN record. This problem has been present since NONMEM 7.6.0. As a work-around, specify OFVDIMSCALED=0 on all $DESIGN records, if OFVDIMSCALED is not desired.

4) When OFVTYPE=6 and first $DESIGN record is evaluation only (MAXEVAL=0), the objective function is incorrectly calculated. This bug has existed since NONMEM 7.5.0. As a work-around, enter the $DESIGN … MAXEVAL=0 statement twice. The second evaluation will provide the correct objective function.

5) With Intel fortran ifx, in some circumstances, when number of data items is less than 15, the following error is given OBSERVATION EVENT RECORD MAY NOT SPECIFY DOSING INFORMATION, even though the data file is properly structured with separate dose and observation records. Work-around is to set $SIZES PD=15 or greater, or use -prdefault command line option.

6) In $DESIGN, the variances to SAME block OMEGAS were incorrectly calculated when FIMDIAG=1. Also, when there are off-diagonal omegas, the variances were incorrectly calculated. This will be corrected in a future version of NONMEM.

7) In finedata, if items in data file are more than 15 digits, the new data file may have an incorrect structure. Work-around is to provide fewer than 15 digits for each data item, or use the new finedata.f90 (build the finedata program with your favorite fortran compiler) placed in nonmem760 folder of ICON/NONMEM download site.

8) When $DATA … REPL or $INPut … REPL_ are used to serve as a data template expander during a $SIML step, along with the -maxlim=3 option, some of the LIM values are not properly sized, resulting in some file I/O processing of internal records. This can cause an error when a pnm file uses the -awnf option, as this setting expects all internal variables to be located in memory. Work-around is to not use the -awnf option and -maxlim-3 option in the .pnm file when also using REPL and REPL_. Or, use REPL and

REPL_ in a simulation only (without parallelization) control stream to produce the expanded data file, then use the data file in another control stream for estimation with parallelization, -awnf and -maxlim=3 options.