Complete Flow−Indep Predicate for Array KONL from loop mafillsm_do7 of gromacs.

NL **k=1** **NL** **k=1** **NL** **k=1**

19 < nope **ipkon(k) < 0**

nope0 <= nope

buckling OR nload = 0

callsite callsite

WHILE LOOP *WHILE LOOP*

... BIG USR ... BIG USR
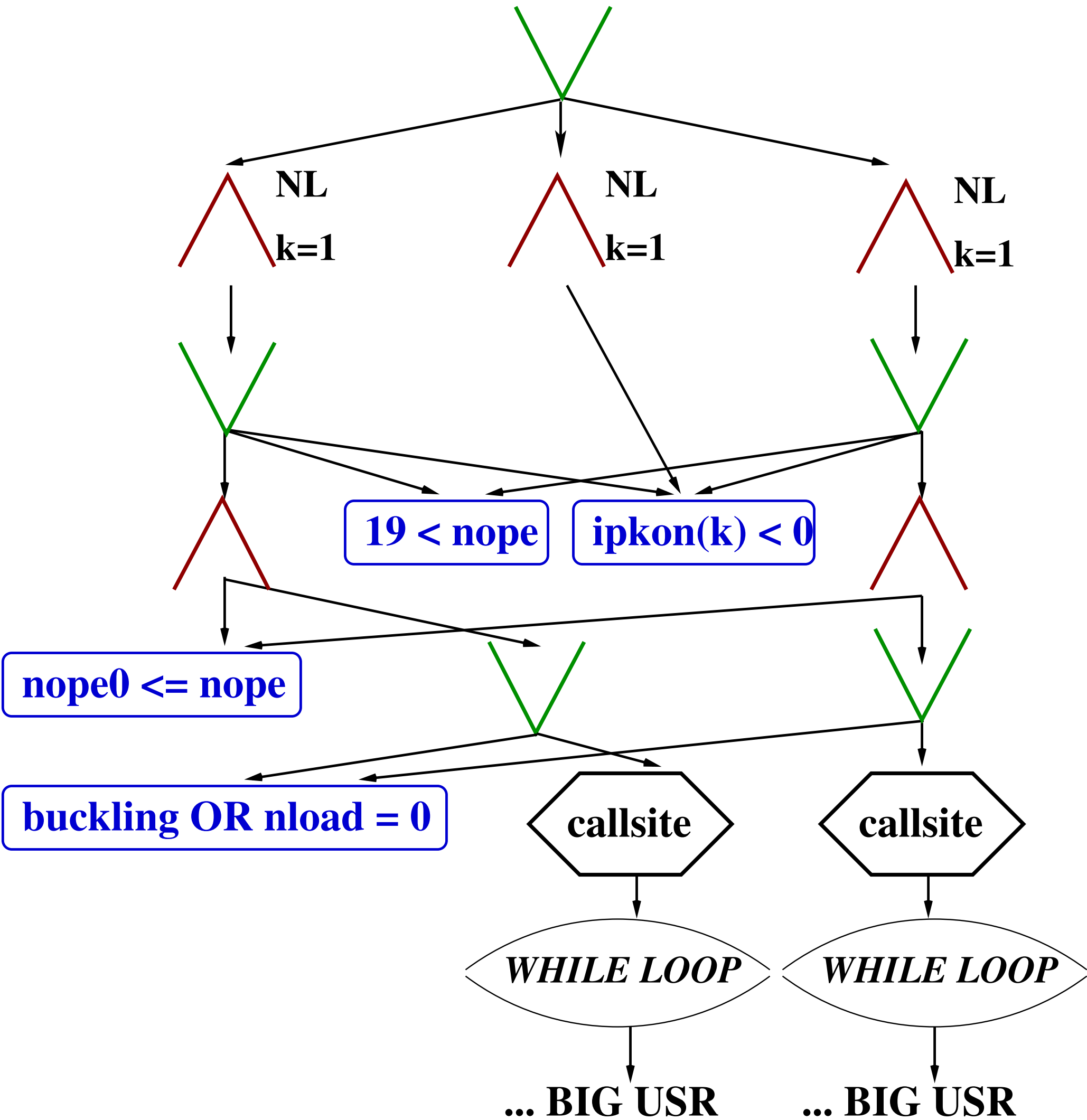
Extracted O(N) Flow−Indep Predicate:

NL **k=1** **NL** **k=1**

19 < nope **ipkon(k) < 0**

buckling OR nload = 0 **nope0 <= nope**