MLCRIPT Pseudocode

```
MLCRIPT(C):
    list_b = list_po ∪ list_pso
    BACKWARD_Traverse(C, list_b, list_f)
    FORWARD_Traverse(C, list_f)
    update SET lists
    update SEU lists
end

BACKWARD_Traverse(C, list_b, list_f):
    while(list_b ≠ NULL)
        if (p is not an FF) && (level_p ≤ M_L)
            for each fanin i of p
                if i is sensitive
                    level_i = level_p
                else
                    level_i = level_p + 1
                end if
                list_b = list_b ∪ i
            end for
        else
            list_f = list_f ∪ p
        end if
    end while
end

FORWARD_Traverse(C, list_f):
    while(list_f ≠ NULL)
        if (p is not an FF) && (All fanins are visited)
            DeductiveFaultSimulation(p)
            list_f = list_f ∪ fanout(p)
        end if
    end while
end
```