

oct. 08, 18 17:32

somme_latin1.s

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```

.global somme
.global n
.global calcul

.bss
somme: .skip 4
n:     .skip 4

.text
@ r0 : i
@ r1 : j
@ r2 : copie de somme
@ r3 : adresse puis copie de n
@ r4 : adresse de somme

calcul:    .ltorg
           stmfd sp!, {r0-r4}    @ code standard de début de fonction

           ldr  r4, =somme        @ somme = 0
           mov  r2, #0
           str  r2, [r4]

corpsfor1: mov  r0, #1            @ i=1
           b    condw1

corpsw1:   @ debut corps de for1/while1

initfor2:  mov  r1, r0            @ j=i
           b    condw2

corpsw2:   ldr  r4, =somme        @ somme = somme + j
           ldr  r2, [r4]
           add  r2, r2, r1
           str  r2, [r4]

finw2:
majfor2:   add  r1, r1, #1        @ j = j+1

condw2:    ldr  r3, =n
           ldr  r3, [r3]
           cmp  r1, r3            @ if (j ≤ n) goto corpsw2
           ble  corpsw2

finfor2:
majfor1:   add  r0, r0, #1        @ i = i+1

condw1:    ldr  r3, =n
           ldr  r3, [r3]
           cmp  r0, r3            @ if (i ≤ n) goto corpsw1
           ble  corpsw1

           ldmfd sp!, {r0-r4}    @ code standard de fin de fonction
           mov  pc, lr

```