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	<pre> #include <stdio.h> #include "tab.h" int main (void) { register int i; for (i=0;i<MAX;i++) t[i] = 3*i; f(); printf ("Somme : %u, calcul direct = %u\n", somme, (3*MAX*(MAX-1))/2); return 0; } #include "tab.h" unsigned int t[MAX]; unsigned int somme; void f () { register unsigned int *p; register unsigned int s; s = 0; for (p=t; p<t+MAX;p++) { s = s + *p; } somme = s; } #include "tab.h" unsigned int t[MAX]; unsigned int somme; void f () { register unsigned int i; register unsigned int s; s = 0; for (i=0; i<MAX;i++) { s = s + t[i]; } somme = s; } #define ASM #include "tab.h" .global t .global somme .global f t: .bss .skip MAX*4 somme: .skip 4 .text @ r0 : p, r1 : s, r2 : t + MAX r3 : t r4 : tmp </pre>	

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	<pre> f: stmfd sp!,{r0-r4} for: mov r1,#0 @ s=0 ldr r0,t @ p=t ldr r2,t+MAX*4 @ t+MAX b testfor @ goto test_for corpsfor: ldr r4,[r0] @ s = s + *p add r1,r1,r4 add r0,r0,#4 @ p++ (+1*sizeof(unsigned int)) testfor: cmp r0,r2 @ if (p<t+MAX) goto corpsfor blo corpsfor finfor: ldr r4,= somme @ somme = s; str r1,[r4] ldmfd sp!,{r0-r4} mov pc,lr #define ASM #include "tab.h" .global t .global somme .global f t: .bss .skip MAX*4 somme: .skip 4 .text @ r0 : i, r1 : s, r2 : i*sizeof(unsigned int) r3 : t r4 : tmp f: stmfd sp!,{r0-r4} for: mov r1,#0 @ s=0 mov r0,#0 @ i=0 b testfor @ goto test_for corpsfor: ldr r3,= t @ s = s + t[i] mov r2,r0, LSL #2 @ i*sizeof(unsigned int) ldr r4, [r3,r2] add r1,r1,r4 add r0,r0,#1 @ i++ testfor: cmp r0,#MAX @ if (i<MAX) goto corpsfor blo corpsfor finfor: ldr r4,= somme @ somme = s; str r1,[r4] ldmfd sp!,{r0-r4} mov pc,lr .ltorg </pre>	