

aoÃ»t 24, 18 3:09

devoir_code_a_traduire_solution.latin.c

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```

unsigned int a = 3;
unsigned int b = 5;
unsigned int c = 6;
unsigned int d = 4;

unsigned int max_ab;
unsigned int max_cd;

void main ()
{
    register unsigned int x;          /* a stocker dans r0 */
    register unsigned int y;          /* a stocker dans r1 */
    register unsigned int *maxi;      /* a stocker dans r2 */
    register unsigned int rmax;       /* a stocker dans r8 */

    register unsigned int e;          /* a stocker dans r4 */
    register unsigned int f;          /* a stocker dans r5 */
    register unsigned int max_ef;     /* a stocker dans r6 */

    e = 5;                            mov r4,#5
    f = 6;                            mov r5,#6

    // calculer max(a,b)
    max_ef = e;                       mov r6,r4
    if (f > max_ef)                   cmp r5,r6; bhs finis2
        max_ef = f;                  mov r6,r5
    finis2:

    // Calculer max(a,b) dans max_ab
    x = a;                           ldr r0,=a; ldr r0,[r0]
    y = b;                           ldr r1,=b; ldr r1,[r1]
    maxi = &max_ab;                  ldr r2,=max_ab
    {
        rmax = x;                    mov r8,r0
        if (y > rmax)                 cmp r1,r8; bls finis3
            rmax = y;                  mov r8,r1
        *maxi = rmax;                finis3: str r8,[r2]
    }

    // calculer max(c,d) dans max_cd
    x = c;                           ldr r0,=c; ldr r0,[r0]
    y = d;                           ldr r1,=d; ldr r1,[r1]
    maxi = &max_cd;                  ldr r2,=max_cd
    {
        rmax = x;                    mov r8,r0
        if (y > rmax)                 cmp r1,r8; bls finis1
            rmax = y;                  mov r8,r1
        *maxi = rmax;                finis1: str r8,[r2]
    }
}

```