1. Secvențe de verificare comune

Toate proiectele vor executa secvența de verificare A (all):

```
LOOP:
            0x1020, w1 ;INW0=aaab
    mov
            0x1022, w2 ;INW1=5555
    mov
    add
            w1,w2,w3
    sub
            w1,w2,w4
    and
            w1,w2,w5
    ior
            w1,w2,w6
   mov
            w1,0x1024
            w2,0x1024
   MOV
            w3,0x1024
   MOV
           w4,0x1024
   MOV
           w5,0x1024
    mov
            w6,0x1024
    mov
            LOOP
    bra
```

Secvența de verificare pentru flag-ul Z (zero):

```
;flag Z
LOOP:
           0x1020, w1 ; INW0=ffff
   mov
           0x1022, w2 ;INW1=0001
   mov
           w1,w2,w3 ;0000, Z=1
   add
   add
           w2,w2,w7
                     ;0002, Z=0
   sub
           w2,w2,w4
                    ;0000, Z=1
           w4,w2,w4 ;ffff, Z=0
   sub
           w1,w3,w5 ;0000, Z=1
   and
           w1,w1,w5 ;ffff Z=0
   and
           w3, w3, w6 ;0000 Z=1
   ior
           w1,w2,w6
                      ;FFFF Z=0
   ior
           w1, 0x1024
   mov
           w2, 0x1024
   mov
           w3, 0x1024
   MOV
           w4, 0x1024
   mov
   mov
           w5, 0x1024
   mov
           w6, 0x1024
```

LOOP

bra

Secvența de verificare pentru flag-ul N (Negative):

```
LOOP:
            0 \times 1020, w1 ; INW0=7fff
    mov
           0x1022, w2 ;INW1=0001
    mov
           w1,w2,w3 ;8000, N=1
    add
           w3,w3,w3
                     ;0000, N=0
    add
                       ;ffff, N=1
           w3,w2,w4
    sub
    sub
           w4,w4,w3
                       ;0000, N=0
    and
           w4,w4,w5
                       ;ffff, N=1
    and
           w4,w2,w5
                       ;0001, N=0
    ior
           w4,w1,w6
                       ;ffff, N=1
    ior
           w1,w1,w6
                       ;7fff, N=0
           w1, 0x1024
    mov
           w2, 0x1024
    mov
           w3, 0x1024
    mov
           w4, 0x1024
    mov
           w5, 0x1024
    mov
           w6, 0x1024
    mov
           LOOP
    bra
```

Secvența de verificare pentru flag-ul C (carry):

```
LOOP:
           0x1020, w1
                      ;INWO=ffff
   mov
           0x1022, w2 ; INW1=0001
   mov
           w1, w2, w3 ;0000, C=1
   add
           w1,w2,w5
                      ;C nemodificat
   and
           w3,w2,w3 ;0001, C=0
   add
           w3, w2, w4 ;0000, C=1
   sub
   ior
           w1,w2,w6 ;C nemodificat
   sub
           w4,w2,w4
                      ;ffff, C=0
   mov
           w1, 0x1024
           w2, 0x1024
   mov
   mov
           w3, 0x1024
           w4, 0x1024
   mov
           w5, 0x1024
   mov
           w6, 0x1024
   mov
           LOOP
   bra
```

Secvența de verificare pentru flag-ul OV (overflow):

LOOP:

```
mov
        0x1020, w1 ;INW0=7fff
mov
        0x1022, w2 ;INW1=0001
add
        w1,w2,w3 ;w3=8000, OV=1
                           , OV=0
add
        w2,w2,w8 ;w8=2
        w3,w3,w4 ;w4=0000, OV=1 w3,w2,w8 ; OV=0
add
add
        w2,w3,w5 ;w5=8001, OV=1
sub
        w1, w2, w8 ; OV=0
w5, w1, w7 ; w6=0002, OV=1
sub
sub
        w1,w2,w5 ;OV nemodificat
and
ior
        w1,w2,w6
                    ;OV nemodificat
        w1, 0x1024
mov
        w2, 0x1024
mov
        w3, 0x1024
mov
        w4, 0x1024
mov
        w5, 0x1024
mov
        LOOP
bra
```