

```

#Chương trình: if2 (a>=-3 && a<=4)
# -4 | 5 -> tong; -3 | 4 -> hieu
#-----
#Data segment
.data
#Cac dinh nghia bien
int_a: .word 0
int_b: .word 1
int_c: .word 2
#Cac cau nhac nhap du lieu
Nhap_a: .asciiz "Nhap a: "
Xuat_kq: .asciiz "a= "
#-----
#Code segment
.text
.globl main
#-----
#Chương trình chính
#-----
main:
#Nhap (syscall)
la $a0,Nhap_a
addi $v0,$zero,4
syscall
addi $v0,$zero,5
syscall
sw $v0,int_a
#Xu ly
# DK: (a>=-3 && a<=4) ; DK1: (a>=-3) ; DK2: (a<=4)
# DK1': (a<-3) ; DK2': (a>4)
# t0=a/DK/a, t1=-3/4, t2=DK1'/DK1, t3=DK2'/DK2, t4=b, t5=c
lw $t0,int_a
lw $t4,int_b
lw $t5,int_c
# if DK
# tinh DK1': (a<-3)
addi $t1,$zero,-3
slt $t2,$t0,$t1
# dao ve DK1
xori $t2,$t2,1
# tinh DK2': (a>4)
addi $t1,$zero,4
slt $t3,$t1,$t0
# dao ve DK2
xori $t3,$t3,1
# tinh DK
and $t0,$t2,$t3
# kiem tra re nhanh
beq $t0,$zero,else1
# then
sub $t0,$t4,$t5
j endif1
# else
else1:

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        add    $t0,$t4,$t5
    # endif
endif1:  sw     $t0,int_a
#Xuat ket qua (syscall)
    la        $a0,Xuat_kq
    addi $v0,$zero,4
    syscall
    lw        $a0,int_a
    addi $v0,$zero,1
    syscall
#ket thuc chuong trinh (syscall)
Kthuc:    addiu    $v0,$zero,10
    syscall
#-----

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