```
        l.d     $f0,a($sp)      #load scalar a
        addiu   $t0,$s0,#512    #upper bound of what to load
loop:   l.d     $f2,0($s0)      #load x(i)
        mul.d   $f2,$f2,$f0     #a x x(i)
        l.d     $f4,0($s1)      #load y(i)
        add.d   $f4,$f4,$f2     #a x x(i) + y(i)
        s.d     $f4,0($s1)      #store into y(i)
        addiu   $s0,$s0,#8      #increment index to x
        addiu   $s1,$s1,#8      #increment index to y
        subu    $t1,$t0,$s0     #compute bound
        bne     $t1,$zero,loop  #check if done
```

Unn Fig. 6-3.