```c
int mult(int a,int b){
        int c=a,i=1;
        while(c>=i){
                a=a+b;
                a--;
                i++;
        }
        return a;
}

int pot(int x,int y){
        int acu=b;
        while(y>0){
                acu=mult(x,acu);
                y--;
        }
        return acu;
}


int main(){
        int x=5,y=3;
        return pot(x,y);
}
```

a=%l0 , b=%l1 , c=%l2 , x=%l3 , y=%l4 , acu=%l5

```
multiplicación
0x0000        add    %l3, %g0 , l0
0x0004        add    %l5 , %go ,%l3
0x0008        mov    %go , %l2
while
0x000c        cmp %l1 , 0
0x0010        add  %l2 , %l0 , %l2
0x0014        bne  while1
0x0018        subcc  %l1 , 1 , %l1
0x001c        jmpl %07, 4*1 , %g0
0x0020        add  %l2 , %g0 , %o0
potencia
0x0024        add  %l3 , %g0 , %l5
while
0x0028        cmp %l4 , 1
0x002c        call multiplicación
0x0030        add %o0 , %g0 , %l5
0x0034        ba while
0x0038        subcc %l4 , 1 ,%l4
0x003c        add  %07 , %g0 , %l6
0x0040        jmpl %l6 , 4*1 , %g0
0x0044        add  %l5 , %g0 , %o1
```

main
0x0048   mov 5 , %l3
0x004c   mov 3 , %l4
0x0050   call potencia
0x0054   add %o1 , %g0 , %o0
0x0058   nop

10 | 10000 | 000000 | 10011 | 0 | 00000000 | 00000 |
10 | 10011 | 000000 | 10101 | 0 | 00000000 | 00000 |
10 | 10010 | 000010 | 00000 | 0 | 00000000 | 00000 |
While
10 | 00000 | 010100 | 10001 | 1 | 00000000 | 00000 |
10 | 10010 | 000000 | 10010 | 0 | 00000000 | 10000 |
00 | a |1001 | 010 | 000000000000000000000000
10 | 10001 | 010100 | 10001 | 1 | 0000000000001 |
10 | 00000 | 111000 | 01111 | 0 | 00000000 | 11100 |
10 | 01000 | 000000 | 10010 | 0 | 00000000 | 00000 |
Potencia
10 | 10101 | 000000 | 10011 | 0 | 00000000 | 00000 |
While
10 | 00000 | 010100 | 10100 | 1 | 0000000000001 |
01 | 00000000000000000000000000000000
10 | 10101 | 000000 | 01000 | 0 | 00000000 | 00000 |
00 | a | 1000 | 000000000000000000000 |
10 | 10100 | 010100 | 10100 | 1 | 0000000000001 |
10 | 10110 | 000000 | 01111 | 0 | 00000000 | 00000 |
10 | 00000 | 111000 | 10110 | 1 | 0000000011100 |
10 | 01000 | 000000 | 10101 | 0 | 00000000 | 00000 |
Main
10 | 00000 | 000010 | 10011 | 1 | 0000000000101 |
10 | 00000 | 000010 | 10100 | 1 | 0000000000011 |
01 | 00000000000000000000000000000000|
10 | 01000 | 000000 | 01001 | 000000 | 00000 |