

```
function main ()
{
  f (2, 3) ;
}
```

```
function f (x, y)
{
  return x + y ;
}
```

```
      bra L1
L0:   ldr MP
      ldrr MP SP
      ldc 2
      annotate SP 0 0 green "2"
      ldc 3
      annotate SP 0 0 green "3"
      ldl -2
      ldc L2
      jsr
      ajs -1
      ajs 0
      ldc 0
      sts -3
      ldrr SP MP
      str MP
      sts 0
      ajs 1
      ret
L1:   bra L3
L2:   ldr MP
      ldrr MP SP
      annotate MP -4 -4 green "x (param)"
      annotate MP -3 -3 green "y (param)"
      ldl -4
      annotate SP 0 0 green "x"
      ldl -3
      annotate SP 0 0 green "y"
      add
      annotate SP 0 0 green "x+y"
      sts -5
      ldrr SP MP
      str MP
      sts -2
      ajs -1
      ret
      ajs 0
      ldc 0
      sts -5
      ldrr SP MP
      str MP
      sts -2
      ajs -1
      ret
L3:   ldr MP
      ldc L0
      jsr
      ajs -1
      ajs 0
```