A continuación, se presentarán los resultados de la ejecución de cada programa. El programa se puede encontrar en los respectivos archivos.

Ejemplo **RISCV64**

```
0x00000000000100b0 in _start ()
(gdb) b calcXOR
Breakpoint 1 at 0x100c8
(gdb) b saveVAL
Breakpoint 2 at 0x1010c
(gdb) b compare
Breakpoint 3 at 0x10118
(gdb) b end
Breakpoint 4 at 0x10124
(gdb) s
Single stepping until exit from function _start,
which has no line number information.

Breakpoint 1, 0x00000000000100c8 in calcXOR ()
(gdb) i r
ra              0x100c8   0x100c8 <calcXOR>
sp              0x40007fff90      0x40007fff90
gp              0x0       0x0
tp              0x0       0x0
t0              0x0       0
t1              0x0       0
t2              0x0       0
fp              0x0       0x0
s1              0x0       0
a0              0xa       10
a1              0x4000800090      274886295696
a2              0x41      65
a3              0x0       0
a4              0x0       0
a5              0x0       0
a6              0x0       0
a7              0x0       0
s2              0x0       0
s3              0x0       0
s4              0x0       0
s5              0x0       0
s6              0x0       0
s7              0x0       0
s8              0x0       0
s9              0x0       0
s10             0x0       0
s11             0x0       0
t3              0x0       0
t4              0x0       0
t5              0x0       0
t6              0x0       0
pc              0x100c8   0x100c8 <calcXOR>
```

```
Breakpoint 3, 0x0000000000010118 in compare ()
(gdb) s
Single stepping until exit from function compare,
which has no line number information.

Breakpoint 1, 0x00000000000100c8 in calcXOR ()
(gdb) s
Single stepping until exit from function calcXOR,
which has no line number information.

Breakpoint 2, 0x000000000001010c in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 3, 0x0000000000010118 in compare ()
(gdb) s
Single stepping until exit from function compare,
which has no line number information.
0x0000000000010120 in end ()
(gdb) i r
ra              0x10114   0x10114 <compare>
sp              0x40007fff90      0x40007fff90
gp              0x0       0x0
tp              0x0       0x0
t0              0x0       0
t1              0x0       0
t2              0x0       0
fp              0x0       0x0
s1              0x0       0
a0              0x0       0
a1              0x40008000b8      274886295736
a2              0x1a      26
a3              0x0       0
a4              0x0       0
a5              0x0       0
a6              0x0       0
a7              0x0       0
s2              0x0       0
s3              0x1       1
s4              0x1       1
s5              0x0       0
s6              0x0       0
s7              0x0       0
s8              0x0       0
s9              0x0       0
s10             0x0       0
s11             0x0       0
t3              0x0       0
t4              0x0       0
t5              0x0       0
t6              0x0       0
pc              0x10120   0x10120 <end>
(gdb)
```

```
Breakpoint 2, 0x000000000001010c in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 3, 0x0000000000010118 in compare ()
(gdb) i r
ra              0x10114  0x10114 <compare>
sp              0x40007fff90      0x40007fff90
gp              0x0      0x0
tp              0x0      0x0
t0              0x0      0
t1              0x0      0
t2              0x0      0
fp              0x0      0x0
s1              0x0      0
a0              0x9      9
a1              0x4000800094      274886295700
a2              0x20     32
a3              0x0      0
a4              0x0      0
a5              0x0      0
a6              0x0      0
a7              0x0      0
s2              0x0      0
s3              0x0      0
s4              0x0      0
s5              0x0      0
s6              0x0      0
s7              0x0      0
s8              0x0      0
s9              0x0      0
s10             0x0      0
s11             0x0      0
t3              0x0      0
t4              0x0      0
t5              0x0      0
t6              0x0      0
pc              0x10118  0x10118 <compare+4>
(gdb) x/1dw 0x4000800090
0x4000800090:    65
(gdb) x/1dw 0x4000800094
0x4000800094:    32
(gdb) s
```

```
(gdb) x/1dw 0x4000800090
0x4000800090:    65
(gdb) x/1dw 0x4000800094
0x4000800094:    32
(gdb) x/1dw 0x4000800098
0x4000800098:    144
(gdb) x/1dw 0x400080009C
0x400080009c:    72
(gdb) x/1dw 0x40008000A0
0x40008000a0:    164
(gdb) x/1dw 0x40008000A4
0x40008000a4:    82
(gdb) x/1dw 0x40008000A8
0x40008000a8:    169
(gdb) x/1dw 0x40008000AC
0x40008000ac:    212
(gdb) x/1dw 0x40008000B0
0x40008000b0:    106
(gdb) x/1dw 0x40008000B4
0x40008000b4:    53
(gdb)
```

Ejemplo ARM64

```
Type "apropos word" to search for commands related to "word".
(gdb) file example1
Reading symbols from example1...
(No debugging symbols found in example1)
(gdb) target remote localhost:1233
Remote debugging using localhost:1233
0x00010054 in _start ()
(gdb) b calcXOR
Breakpoint 1 at 0x1006c
(gdb) b saveVAL
Breakpoint 2 at 0x100b4
(gdb) b compare
Breakpoint 3 at 0x100c4
(gdb) b end
Breakpoint 4 at 0x100d4
(gdb) s
Single stepping until exit from function _start,
which has no line number information.

Breakpoint 1, 0x0001006c in calcXOR ()
(gdb) i r
r0             0xb                 11
r1             0x408002a0          1082131104
r2             0x41                65
r3             0x0                 0
r4             0x0                 0
r5             0x0                 0
r6             0x0                 0
r7             0x0                 0
r8             0x0                 0
r9             0x100               256
r10            0x100dc             65756
r11            0x0                 0
r12            0x0                 0
sp             0x40800100          0x40800100
lr             0x10068             65640
pc             0x1006c             0x1006c <calcXOR>
cpsr           0x10                16
fpscr          0x0                 0
fpsid          0x41034070          1090732144
fpexc          0x40000000          1073741824
ID_MMFR1       0x40000000          1073741824
ID_MMFR2       0x1260000           19267584
```

```
Breakpoint 2, 0x000100b4 in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 3, 0x000100c4 in compare ()
(gdb) i r
r0              0xb                 11
r1              0x408002a0          1082131104
r2              0x20                32
r3              0x0                 0
r4              0x0                 0
r5              0x0                 0
r6              0x0                 0
r7              0x0                 0
r8              0x0                 0
r9              0x104               260
r10             0x100dc             65756
r11             0x0                 0
r12             0x0                 0
sp              0x40800100          0x40800100
lr              0x100c0             65728
```

```
DBGDEVID2       0x0                 0
DBGWCR1_EL1     0x0                 0
ID_PFR1         0x10001             65537
DBGDEVID1       0x2                 2
ID_DFR0         0x6010009           100728841
NFAR            0x0                 0
MAIR0           0x0                 0
DBGDEVID        0x110f13            1117971
IFAR            0x0                 0
ID_AFR0         0x0                 0
MAIR1           0x0                 0
RES_0_C0_C9_X   0x0                 0
ID_MMFR0        0x10101105          269488389
DSLSR_EL1       0xa                 10
(gdb) x/1dw 0x408000200
0x8000200:      Cannot access memory at address 0x8000200
(gdb) x/1dw 0x40800200
0x40800200:     65
(gdb) x/1dw 0x40800204
0x40800204:     32
(gdb)
```

```
ID_MMFR0         0x10101105              269488389
OSLSR_EL1        0xa                     10
(gdb) x/1dw 0x40800200
0x40800200:         65
(gdb) x/1dw 0x40800204
0x40800204:         32
(gdb) x/1dw 0x40800208
0x40800208:         144
(gdb) x/1dw 0x4080020C
0x4080020c:         72
(gdb) x/1dw 0x40800210
0x40800210:         164
(gdb) x/1dw 0x40800214
0x40800214:         82
(gdb) x/1dw 0x40800218
0x40800218:         169
(gdb) x/1dw 0x4080021C
0x4080021c:         212
(gdb) x/1dw 0x40800220
0x40800220:         106
(gdb) x/1dw 0x40800224
0x40800224:         53
```

Ejemplo x86

```
(gdb) b _start
Breakpoint 1 at 0x401000
(gdb) b calcXOR
Breakpoint 2 at 0x40101c
(gdb) b saveVAL
Breakpoint 3 at 0x401078
(gdb) b compare
Breakpoint 4 at 0x401085
(gdb) b end
Breakpoint 5 at 0x40108f
(gdb) run
Starting program: /home/johnnyzaet/Documents/isa/x86/test/example

Breakpoint 1, 0x0000000000401000 in _start ()
(gdb) s
Single stepping until exit from function _start,
which has no line number information.

Breakpoint 2, 0x000000000040101c in calcXOR ()
(gdb) i r
rax            0xb                 11
rbx            0x7fffffffe370      140737488348016
rcx            0x41                65
rdx            0x0                 0
rsi            0x0                 0
rdi            0x0                 0
rbp            0x0                 0x0
rsp            0x7fffffffe268      0x7fffffffe268
r8             0x0                 0
r9             0x0                 0
r10            0x0                 0
r11            0x0                 0
r12            0x0                 0
r13            0x0                 0
r14            0x0                 0
r15            0x0                 0
rip            0x40101c            0x40101c <calcXOR>
eflags         0x202               [ IF ]
cs             0x33                51
ss             0x2b                43
ds             0x0                 0
es             0x0                 0
fs             0x0                 0
gs             0x0                 0
```

```
gs              0x0                 0
(gdb) s
Single stepping until exit from function calcXOR,
which has no line number information.

Breakpoint 3, 0x0000000000401078 in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 4, 0x0000000000401085 in compare ()
(gdb) i r
rax             0xb                 11
rbx             0x7fffffffe374      140737488348020
rcx             0x20                32
rdx             0x0                 0
rsi             0x0                 0
rdi             0x0                 0
rbp             0x0                 0x0
rsp             0x7fffffffe250      0x7fffffffe250
r8              0x0                 0
r9              0x0                 0
r10             0x0                 0
r11             0x0                 0
r12             0x0                 0
r13             0x0                 0
r14             0x0                 0
r15             0x0                 0
rip             0x401085            0x401085 <compare>
eflags          0x206               [ PF IF ]
cs              0x33                51
ss              0x2b                43
ds              0x0                 0
es              0x0                 0
fs              0x0                 0
gs              0x0                 0
(gdb) x/1dw 0x7fffffffe370
0x7fffffffe370: 65
(gdb) x/1dw 0x7fffffffe374
0x7fffffffe374: 32
(gdb)
```

```
Breakpoint 3, 0x0000000000401078 in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 4, 0x0000000000401085 in compare ()
(gdb) s
Single stepping until exit from function compare,
which has no line number information.

Breakpoint 2, 0x000000000040101c in calcXOR ()
(gdb) s
Single stepping until exit from function calcXOR,
which has no line number information.

Breakpoint 3, 0x0000000000401078 in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 4, 0x0000000000401085 in compare ()
(gdb) s
Single stepping until exit from function compare,
which has no line number information.

Breakpoint 2, 0x000000000040101c in calcXOR ()
(gdb) s
Single stepping until exit from function calcXOR,
which has no line number information.

Breakpoint 3, 0x0000000000401078 in saveVAL ()
(gdb) s
Single stepping until exit from function saveVAL,
which has no line number information.

Breakpoint 4, 0x0000000000401085 in compare ()
(gdb) s
Single stepping until exit from function compare,
which has no line number information.

Breakpoint 2, 0x000000000040101c in calcXOR ()
(gdb) s
Single stepping until exit from function calcXOR,
which has no line number information.
```

```
g3            0x0
(gdb) x/1dw 0x7fffffffe370
0x7fffffffe370: 65
(gdb) x/1dw 0x7fffffffe374
0x7fffffffe374: 32
(gdb) x/1dw 0x7fffffffe378
0x7fffffffe378: 144
(gdb) x/1dw 0x7fffffffe37C
0x7fffffffe37c: 72
(gdb) x/1dw 0x7fffffffe380
0x7fffffffe380: 164
(gdb) x/1dw 0x7fffffffe384
0x7fffffffe384: 82
(gdb) x/1dw 0x7fffffffe388
0x7fffffffe388: 169
(gdb) x/1dw 0x7fffffffe38c
0x7fffffffe38c: 212
(gdb) x/1dw 0x7fffffffe390
0x7fffffffe390: 106
(gdb) x/1dw 0x7fffffffe394
0x7fffffffe394: 53
(gdb)
```