

1 Assembly Listing with NASM Syntax

Listing 1: Assembly listing with NASM syntax using the custom language `nasm/lang` and the custom style `nasm/style`.

```
1 extern printf
2 extern exit
3 global _start
4
5 [section .text]
6 _start:
7     mov     rdi, hello ; arg1: "hello world\n"
8     call    printf     ; printf("hello world\n")
9     mov     rdi, 0      ; arg1: 0
10    call    exit        ; exit(0)
11
12 [section .rodata]
13 hello:
14     db      'hello world', 10, 0
```

2 C Listing

Listing 2: C listing using the default C language and the custom style `c/style`.

```
1 #include <stdio.h>
2
3 // main prints "hello world" to standard output.
4 int main(int argc, char **argv) {
5     printf("hello world\n");
6     return 0;
7 }
```

3 Go Listing

Listing 3: Go listing using the custom language `go/lang` and the custom style `go/style`.

```
1 // fib is a command which prints the Fibonacci sequence.
2 package main
3
4 import "fmt"
5
6 func main() {
7     c := make(chan int)
8     go fib(c)
9     fmt.Println("The Fibonacci sequence:")
10    for x := range c {
11        fmt.Println(x)
12    }
13
14 }
15
16 func fib(c chan<- int) {
17     a, b := 0, 1
18     for a >= 0 {
19         c <- a
20         a, b = b, a+b
21     }
22     close(c)
23 }
```

4 REIL Instructions Listing

Listing 4: REIL instructions listing using the custom language `reil/lang` and the custom style `nasm/style`.

```
1 bisz t8, , ZF
2 str t8, , esp
3 ldm 16815620, , t0
4 str t0, , eax
5 sub esp, 4, esp
6 and esp, 4294967295, esp
7 stm esi, , esp
8 sub esp, 4, esp
9 and esp, 4294967295, esp
10 stm t2, , esp
11 add -4, ebp, t0
12 and t0, 4294967295, t1
13 stm eax, , t1
14 sub esp, 4, t0
15 and t0, 4294967295, esp
16 stm 16805479, , esp
17 jcc 1, , 16805367
```
