

Policy-Compliant Code Generation

Source Code

```
...  
int main() {  
    ...  
}
```

Policies on
Memory Operations

Policies
on CFI

Policies on Side/
Covert Channels

1. Compiling and Linking

Target Binary
with Proof

```
"0101010101010  
10100101010100  
1001011100...."
```

Attested Bootstrap Enclave

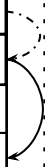
Dynamic Code Loading

2. Binary Parsing

ELF header
Header table
Section 1
...
...

3. Relocation

ELF header
Header table
Segment 1
...
...



Compliance Verification

Assembly

```
"  
...  
subq    $8, (%r11)  
movq    (%r10), %r11  
cmpq    %r11, (%rsp)  
jne     exit_label  
ret     "  
...
```

4. Policy
Checking

5. Imms
Rewriting

```
"  
...  
subq    $8, (%r11)  
movq    (%r10), %r11  
cmpq    %r11, (%rsp)  
jne     exit_label  
-----  
ret     "  
...
```

