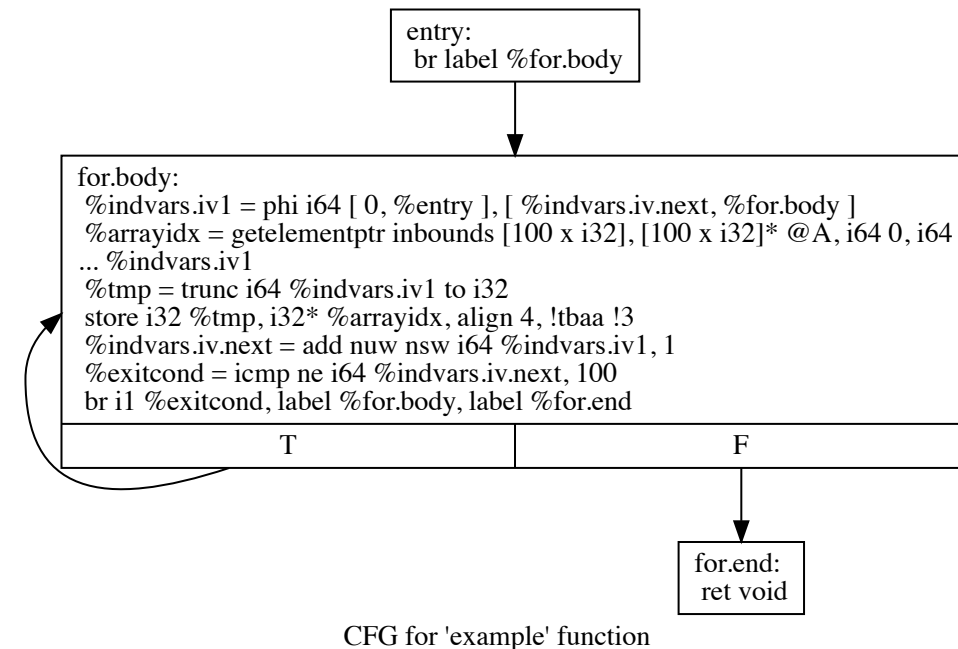
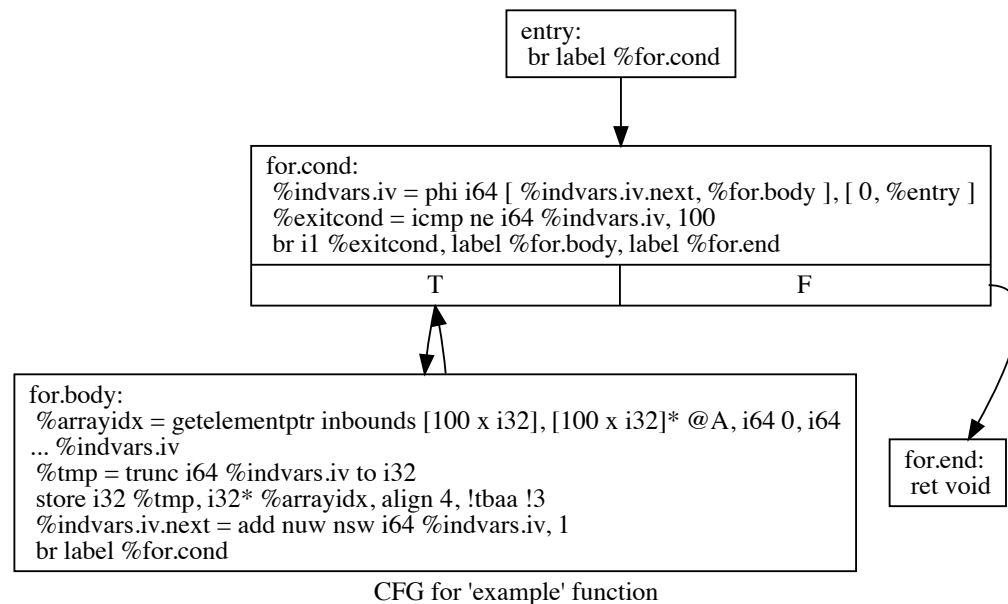


Loop Rotation

Convert a loop into a do/while style loop
Canonicalize loop latch to have a single successor

```
int A[100];
void example() {
    for (int i = 0; i < 100; ++i)
        A[i] = i;
}
```



Motivation

- Canonicalize loop latch to have a single successor
- Makes analysis for loop fusion easier because loop structure is canonical
- Makes mechanics of fusing loops easier because the *latch* and *exiting* blocks are the same

<https://reviews.llvm.org/D22630>