```
IBBNode 206
                                                                                                                                                                           RetICFGNode76 {fun: indirect test{ ln: 59 cl: 2 fl: library.c }}
                                                                                                                                                                          IntraICFGNode77 {fun: indirect test{ ln: 60 cl: 1 fl: library.c }}
                                                                                                                                                                                                                                                 FunEntryICFGNode206 {fun: free}
                                                                                                                                                                                    ret void, !dbg !45 { ln: 60 cl: 1 fl: library.c }
                                                                                                                                                                        FunExitICFGNode78 {fun: indirect test{ ln: 54 cl: 2 fl: library.c }}
                                                                                                                                                                                                    IBBNode 29
                                                                                                                                                                             RetICFGNode29 {fun: my free{ ln: 36 cl: 2 fl: library.c }}
                                                                                                                                                                            IntraICFGNode30 {fun: my free { ln: 37 cl: 1 fl: library.c } }
                                                                                                                                                                                    ret void, !dbg !24 { ln: 37 cl: 1 fl: library.c }
                                                                                                                                                                             FunExitICFGNode31 {fun: my free{ ln: 35 fl: library.c }}
                                                                                                                                                                                                    IBBNode 23
                                                                                                                                                                         FunEntryICFGNode23 {fun: my free{ in line: 35 file: library.c }}
                                                                                                                                                                               IntraICFGNode24 {fun: my free{ ln: 35 fl: library.c }}
                                                                                                                                                                                            AddrStmt: [Var45 <-- Var46]
                                                                                                                                                                          %s.addr = alloca %struct.a struct*, align 8 { ln: 35 fl: library.c }
                                                                                                                                                                                         IntraICFGNode25 {fun: my free}
                                                                                                                                                                                           StoreStmt: [Var45 <-- Var44]
                                                                                                                                                                          store %struct.a_struct* %s, %struct.a struct** %s.addr, align 8
                                                                                                                                                                           IntraICFGNode26 {fun: my free { ln: 36 cl: 7 fl: library.c }}
                                                                                                                                                                                           LoadStmt: [Var49 <-- Var45]
                                                                                                                                                       %0 = load %struct.a struct*, %struct.a struct** %s.addr, align 8, !dbg !22 { ln: 36 cl: 7 fl: library.c }
                                                                                                                                                                            IntraICFGNode27 {fun: my free { ln: 36 cl: 7 fl: library.c } }
                                                                                                                                                                                           CopyStmt: [\overline{Var50} \leftarrow Var49]
                                                                                                                                                                   %1 = bitcast %struct.a struct* %0 to i8*, !dbg !22 { ln: 36 cl: 7 fl: library.c }
                                                                                                                                                                            CallICFGNode 28 {fun: my free { ln: 36 cl: 2 fl: library.c } }
                                                                                                                                                                                                    IBBNode 67
                                                                                                                                                                          RetICFGNode67 {fun: indirect test{ ln: 54 cl: 2 fl: library.c }}
                                                                                                                                                                          IntraICFGNode68 {fun: indirect test{ ln: 56 cl: 2 fl: library.c } }
                                                                                                                                                                                           LoadStmt: [Var118 <-- Var90]
                                                                                                                                                       %4 = load %struct.a struct*, %struct.a struct** %s.addr, align 8, !dbg !37 { ln: 56 cl: 2 fl: library.c }
                                                                                                                                                                         IntraICFGNode69 {fun: indirect test{ ln: 56 cl: 5 fl: library.c }}
                                                                                                                                                                                          GepStmt: [Var1\overline{1}9 \leftarrow Var118]
                                                                                                                                           %field a = getelementptr inbounds %struct.a struct, %struct.a struct* %4, i32 0, i32 0, !dbg !38 { ln: 56 cl: 5 fl: library.c }
                                                                                                                                                                         IntraICFGNode70 {fun: indirect test{ ln: 56 cl: 13 fl: library.c }}
                                                                                                                                                                                         StoreStmt: [Var119 <-- Var121]
                                                                                                                                                                      store i32 10, i32* %field a, align 4, !dbg !39 { ln: 56 cl: 13 fl: library.c }
                                                                                                                                                                          IntraICFGNode71 {fun: indirect test{ ln: 57 cl: 2 fl: library.c }}
                                                                                                                                                                                           LoadStmt: [Var122 <-- Var90]
                                                                                                                                                       %5 = load %struct.a struct*, %struct.a struct** %s.addr, align 8, !dbg !40 { ln: 57 cl: 2 fl: library.c }
                                                                                                                                                                          IntraICFGNode72 {fun: indirect test{ ln: 57 cl: 5 fl: library.c }}
                                                                                                                                                                                           GepStmt: [Var123 <-- Var122]
                                                                                                                                           %field b = getelementptr inbounds %struct.a struct, %struct.a struct* %5, i32 0, i32 1, !dbg !41 { ln: 57 cl: 5 fl: library.c }
                                                                                                                                                                         IntraICFGNode73 {fun: indirect_test{ ln: 57 cl: 13 fl: library.c }}
                                                                                                                                                                                          StoreStmt: [Var123 <-- Var125]
                                                                                                                                                                      store i32 11, i32* %field b, align 4, !dbg !42 { ln: 57 cl: 13 fl: library.c }
                                                                                                                                                                         IntraICFGNode74 {fun: indirect test{ ln: 59 cl: 10 fl: library.c }}
                                                                                                                                                                                           LoadStmt: [Var126 <-- Var90]
                                                                                                                                                       %6 = load %struct.a struct*, %struct.a struct** %s.addr, align 8, !dbg !43 { ln: 59 cl: 10 fl: library.c }
                                                                                                                                                                          CallICFGNode75 {fun: indirect test{ ln: 59 cl: 2 fl: library.c }}
                                                                                                                                                                                            CallPE: [Var44 < - Var126]
                                                                                                                                                                   call void @my free(%struct.a struct* %6), !dbg !44 { ln: 59 cl: 2 fl: library.c }
                                                                                                                                                                                                    IBBNode 63
                                                                                                                                                                          IntraICFGNode63 {fun: indirect test{ ln: 54 cl: 2 fl: library.c }}
                                                                                                                                                                                           LoadStmt: [Var114 <-- Var94]
                                                                                                                                          %1 = load void (%struct.a struct*, i32)*, void (%struct.a struct*, i32)** %fun ptr, align 8, !dbg !34 { ln: 54 cl: 2 fl: library.c }
                                                                                                                                                                         IntraICFGNode64 {fun: indirect test{ ln: 54 cl: 10 fl: library.c }}
                                                                                                                                                                                          LoadStmt: [Var115 <-- Var90]
                                                                                                                                                       %2 = load %struct.a_struct*, %struct.a_struct** %s.addr, align 8, !dbg !35 { ln: 54 cl: 10 fl: library.c }
                                                                                                                                                                         IntraICFGNode65 {fun: indirect_test{ ln: 54 cl: 13 fl: library.c }}
                                                                                                                                                                                           LoadStmt: [Var116 <-- Var92]
                                                                                                                                                                     %3 = load i32, i32* %a.addr, align 4, !dbg !36 { ln: 54 cl: 13 fl: library.c }
                                                                                                                                                                          CallICFGNode66 {fun: indirect test{ ln: 54 cl: 2 fl: library.c }}
                                                                                                                                                                                            CallPE: [Var160 <-- Var115]
                                                                                                                                                                  call void %1(%struct.a struct* %2, i32 %3), !dbg !34 { ln: 54 cl: 2 fl: library.c }
                                                                                                                                                                                           CallPE: [Var161 <-- Var116]
                                                                                                                                                                  call void %1(%struct.a struct* %2, i32 %3), !dbg !34 { ln: 54 cl: 2 fl: library.c }
                                                                                                                                                                                           CallPE: [Var130 <-- Var115]
                                                                                                                                                                  call void %1(%struct.a struct* %2, i32 %3), !dbg !34 { ln: 54 cl: 2 fl: library.c }
                                                                                                                                                                                           CallPE: [Var131 <-- Var116]
                                                                                                                                                                  call void %1(%struct.a struct* %2, i32 %3), !dbg !34 { ln: 54 cl: 2 fl: library.c }
                                                                                                                                                                                                                                                                                                              FunEntryICFGNode49 {fun: indirect_test{ in line: 46 file: library.c }}
                                                                                                                                                                                                                                                                                                                    IntraICFGNode50 {fun: indirect_test{ ln: 46 fl: library.c }}
                                                                                                                                                                                                                                                                                                                                   AddrStmt: [Var90 <-- Var91]
                                                                                                                                                                                                                                                                                                                 %s.addr = alloca %struct.a_struct*, align 8 { ln: 46 fl: library.c }
                                                                                                                                                                                                                                                                                                                   IntraICFGNode51 {fun: indirect test{ ln: 46 fl: library.c }}
                                                                                                                                                                                                                                                                                                                                   AddrStmt: [Var92 <-- Var93]
                                                                                                                                                                                                    IBBNode 60
                                                                                                                                                                         IntraICFGNode60 {fun: indirect test{ ln: 52 cl: 11 fl: library.c }}
                                                                                                                                                                                           StoreStmt: [Var94 <-- Var111]
store void (%struct.a struct*, i32)* @first, void (%struct.a struct*, i32)** %fun ptr, align 8, !dbg !31 { ln: 50 cl: 11 fl: library.c }
                                                                                                                                        store void (%struct.a struct*, i32)* @second, void (%struct.a struct*, i32)** %fun ptr, align 8, !dbg !33 { ln: 52 cl: 11 fl: library.c }
                                                                                                                                                                                      IntraICFGNode62 {fun: indirect test}
                                                                                                                                                                                       BranchStmt: [Unconditional branch]
                                                                                                                                                                                             Successor 0 ICFGNode63
                                                                                                                                                                                                  br label %if.end
                                                                                                                                                                                                                                                                                                                 IntraICFGNode58 {fun: indirect_test{ ln: 49 cl: 6 fl: library.c }}
```

IBBNode 59

IntraICFGNode59 {fun: indirect test{ ln: 50 cl: 11 fl: library.c }}

StoreStmt: [Var94 <-- Var106]

IntraICFGNode61 {fun: indirect test{ ln: 50 cl: 3 fl: library.c }}

BranchStmt: [Unconditional branch]

Successor 0 ICFGNode63 br label %if.end, !dbg !32 { ln: 50 cl: 3 fl: library.c } IBBNode 76

PostDominator

%a.addr = alloca i32, align 4 { ln: 46 fl: library.c } IntraICFGNode52 {fun: indirect test{ ln: 48 fl: library.c }} AddrStmt: [Var94 <-- Var95] %fun\_ptr = alloca void (%struct.a\_struct\*, i32)\*, align 8 { ln: 48 fl: library.c } IntraICFGNode53 {fun: indirect test} StoreStmt: [Var90 <-- Var88] store %struct.a struct\* %s, %struct.a struct\*\* %s.addr, align 8 IntraICFGNode54 {fun: indirect test} StoreStmt: [Var92 <-- Var89] store i32 %a, i32\* %a.addr, align 4 IntraICFGNode55 {fun: indirect test{ ln: 48 cl: 9 fl: library.c }} StoreStmt: [Var94 <-- Var0] store void (%struct.a\_struct\*, i32)\* null, void (%struct.a\_struct\*, i32)\*\* %fun\_ptr, align 8, !dbg !26 { ln: 48 cl: 9 fl: library.c }
IntraICFGNode56 {fun: indirect\_test{ ln: 49 cl: 6 fl: library.c }} LoadStmt: [Var102 <-- Var92] %0 = load i32, i32\* %a.addr, align 4, !dbg !27 { ln: 49 cl: 6 fl: library.c } IntraICFGNode57 {fun: indirect\_test{ ln: 49 cl: 8 fl: library.c }} CmpStmt: [Var103 <-- (Var102 predicate38 Var25)] %cmp = icmp sgt i32 %0, 0, !dbg !29 { ln: 49 cl: 8 fl: library.c }

IBBNode 49

BranchStmt: [Condition Var103] Successor 0 ICFGNode59 Successor 1 ICFGNode60 br i1 %cmp, label %if.then, label %if.else, !dbg !30 { ln: 49 cl: 6 fl: library.c }