GlobalICFGNode0
CopyStmt: [Var1 <-- Var0]
i8* null { constant data }
AddrStmt: [Var82 <-- Var3]
i64 24 { constant data }
AddrStmt: [Var17 <-- Var3]
i32 1 { constant data }
AddrStmt: [Var22 <-- Var3]
i32 0 { constant data } AddrStmt: [Var44 <-- Var AddrStmt: [Var4 <-- Var9] @_ZL5hooks = internal global %struct.internal_hooks* @_ZL12global_hooks, align 8, !dbg !0 { Glob } GepStmt: [Var115 <-- Var5]
@_ZL12global_hooks = internal global %struct.internal_hooks { i8* (i64)* @my_malloc, void (i8*)* @free, i8* (i8*, i64)* @realloc }, align 8, !dbg !19 { Glob }
StoreStmt: [Var115 <-- Var8] AddrStmt: [Var11 <-- Var12]
Function: my_free { "ln": 33, "file": "library.c" }
AddrStmt: [Var27 <-- Var28] Function: [Var2 / <-- Var28]
Function: llvm.dbg.declare
AddrStmt: [Var6 <-- Var33]
Function: my_malloc { "ln": 37, "file": "library.c" }
AddrStmt: [Var7 <-- Var58]
Function: free
AddrStmt: [Var8 <-- Var61]
Function: realloc
AddrStmt: [Var52 <-- Var53]
Function: malloc
AddrStmt: [Var67 <-- Var68] Function: close { "ln": 68, "file": "library.c" } IntraICFGNode30 {fun: create{ "ln": 45, "fl": "library.c" }} IntraICFGNode44 {fun: close{ "ln": 68, "fl": "library.c" }} AddrStmt: [Var91 <-- Var92] AddrStmt: [Var71 <-- Var72] %2 = alloca %struct.a_struct*, align 8 { "ln": 68, "fl": "library.c" } %2 = alloca i8*, align 8 { "ln": 45, "fl": "library.c" } IntraICFGNode31 {fun: create{ "ln": 47, "fl": "library.c" }}
AddrStmt: [Var73 <-- Var74]
%3 = alloca %struct.a_struct*, align 8 { "ln": 47, "fl": "library.c" } IntraICFGNode45 {fun: close}
StoreStmt: [Var91 <-- Var90]
store %struct.a_struct* %0, %struct.a_struct** %2, align 8 IntraICFGNode46 {fun: close{ "ln": 70, "cl": 6, "fl": "library.c" }}
LoadStmt: [Var95 <-- Var91] StoreStmt: [Var71 <-- Var70] %3 = load %struct.a_struct*, %struct.a_struct** %2, align 8, !dbg !283 { "ln": 70, "cl": 6, "fl": "library.c" } | store i8* %0, i8** %2, align 8 IntraICFGNode47 {fun: close { "ln": 70, "cl": 8, "fl": "library.c" } }

CmpStmt: [Var96 <-- (Var95 predicate32 Var0)]

%4 = icmp eq %struct.a_struct* %3, null, !dbg !285 { "ln": 70, "cl": 8, "fl": "library.c" } IntraICFGNode33 {fun: create{ "ln": 47, "cl": 30, "fl": "library.c" }} %4 = load %struct.internal_hooks*, %struct.internal_hooks** @_ZL5hooks, align 8, !dbg !285 { "ln": 47, "cl": 30, "fl": "library.c" } IntraICFGNode48 {fun: close{ "ln": 70, "cl": 6, "fl": "library.c" }}

BranchStmt: [Condition Var96]

Successor 0 ICFGNode49 Successor 1 ICFGNode50 %5 = getelementptr inbounds %struct.internal_hooks, %struct.internal_hooks* %4, i32 0, i32 0, !dbg !286 { "ln": 47, "cl": 37, "fl": "library.c" } br i1 %4, label %5, label %6, !dbg !286 { "ln": 70, "cl": 6, "fl": "library.c" } IntraICFGNode35 {fun: create{ "ln": 47, "cl": 37, "fl": "library.c" }}
LoadStmt: [Var80 <-- Var79]
%6 = load i8* (i64)*, i8* (i64)** %5, align 8, !dbg !286 { "ln": 47, "cl": 37, "fl": "library.c" } IntraICFGNode50 {fun: close{ "ln": 73, "cl": 10, "fl": "library.c" }} LoadStmt: [Var100 <-- Var91]
%7 = load %struct.a_struct*, %struct.a_struct** %2, align 8, !dbg !288 { "ln": 73, "cl": 10, "fl": "library.c" } IntraICFGNode49 {fun: close{ "ln": 71, "cl": 3, "fl": "library.c" }}

BranchStmt: [Unconditional branch]

Successor 0 ICFGNode51

br label %14, !dbg !287 { "ln": 71, "cl": 3, "fl": "library.c" } CallICFGNode36 {fun: create{ "ln": 47, "cl": 30, "fl": "library.c" }}
CallPE: [Var35 <-- Var82]
%7 = call i8* %6(i64 24), !dbg !285 { "ln": 47, "cl": 30, "fl": "library.c" }

0x5566f4a84190 IntraICFGNode52 {fun: close{ "ln": 73, "cl": 13, "fl": "library.c" }}

GepStmt: [Var101 <-- Var100]

%8 = getelementptr inbounds %struct.a_struct, %struct.a_struct* %7, i32 0, i32 3, !dbg !289 { "ln": 73, "cl": 13, "fl": "library.c" } IntraICFGNode54 {fun: close{ "ln": 73, "cl": 13, "fl": "library.c" }}

LoadStmt: [Var103 <-- Var101]

%9 = load i8*, i8** %8, align 8, !dbg !289 { "ln": 73, "cl": 13, "fl": "library.c" } FunEntryICFGNode12 {fun: my_malloc{ "ln": 37, "file": "library.c" }} CallICFGNode55 {fun: close{ "ln": 73, "cl": 2, "fl": "library.c" }}
CallPE: [Var14 <-- Var103] IntraICFGNode13 {fun: my_malloc} AddrStmt: [Var36 <-- Var37] call void @my_free(i8* %9), !dbg !290 { "ln": 73, "cl": 2, "fl": "library.c" } %2 = alloca i8*, align 8 IntraICFGNode14 {fun: my_malloc{ "ln": 37, "fl": "library.c" }} FunEntryICFGNode1 {fun: my_free{ "ln": 33, "file": "library.c" }} AddrStmt: [Var38 <-- Var39] %3 = alloca i64, align 8 { "ln": 37, "fl": "library.c" } IntraICFGNode2 {fun: my_free{ "ln": 33, "fl": "library.c" }} IntraICFGNode15 {fun: my_malloc} AddrStmt: [Var15 <-- Var16] StoreStmt: [Var38 <-- Var35] %2 = alloca i8*, align 8 { "ln": 33, "fl": "library.c" } store i64 %0, i64* %3, align 8 IntraICFGNode16 {fun: my_malloc{ "ln": 38, "cl": 6, "fl": "library.c" }}
LoadStmt: [Var42 <-- Var38]
%4 = load i64, i64* %3, align 8, !dbg !281 { "ln": 38, "cl": 6, "fl": "library.c" } IntraICFGNode4 {fun: my_free{ "ln": 34, "cl": 2, "fl": "library.c" }}
LoadStmt: [Var20 <-- Var4] IntraICFGNode17 {fun: my_malloc{ "ln": 38, "cl": 8, "fl": "library.c" }}
CmpStmt: [Var43 <-- (Var42 predicate32 Var44)] %5 = icmp eq i64 %4, 0, !dbg !283 { "ln": 38, "cl": 8, "fl": "library.c" } %3 = load %struct.internal_hooks*, %struct.internal_hooks** @_ZL5hooks, align 8, !dbg !281 { "ln": 34, "cl": 2, "fl": "library.c" } IntraICFGNode18 {fun: my_malloc{ "ln": 38, "cl": 6, "fl": "library.c" }}

BranchStmt: [Condition Var43]

Successor 0 ICFGNode19 Successor 1 ICFGNode20

br i1 %5, label %6, label %7, !dbg !284 { "ln": 38, "cl": 6, "fl": "library.c" } IntraICFGNode5 {fun: my_free{ "ln": 34, "cl": 9, "fl": "library.c" }}
GepStmt: [Var21 <-- Var20] %4 = getelementptr inbounds %struct.internal_hooks, %struct.internal_hooks* %3, i32 0, i32 1, !dbg !282 { "ln": 34, "cl": 9, "fl": "library.c" } IntraICFGNode19 {fun: my_malloc{ "ln": 39, "cl": 3, "fl": "library.c" }}

StoreStmt: [Var36 <-- Var0]

IntraICFGNode20 {fun: my_malloc{ "ln": 42, "cl": 16, "fl": "library.c" }}

LoadStmt: [Var49 <-- Var38] IntraICFGNode6 {fun: my_free{ "ln": 34, "cl": 9, "fl": "library.c" }}
LoadStmt: [Var23 <-- Var21] %5 = load void (i8*)*, void (i8*)** %4, align 8, !dbg !282 { "ln": 34, "cl": 9, "fl": "library.c" } store i8* null, i8** %2, align 8, !dbg !285 { "ln": 39, "cl": 3, "fl": "library.c" } | %8 = load i64, i64* %3, align 8, !dbg !286 { "ln": 42, "cl": 16, "fl": "library.c" } IntraICFGNode7 {fun: my_free{ "ln": 34, "cl": 20, "fl": "library.c" }}
LoadStmt: [Var24 <-- Var15]
%6 = load i8*, i8** %2, align 8, !dbg !283 { "ln": 34, "cl": 20, "fl": "library.c" } CallICFGNode22 {fun: my_malloc{ "ln": 42, "cl": 9, "fl": "library.c" }}
AddrStmt: [Var50 <-- Var51]
%9 = call noalias i8* @malloc(i64 %8) #4, !dbg !287 { "ln": 42, "cl": 9, "fl": "library.c" } IntraICFGNode21 {fun: my_malloc{ "ln": 39, "cl": 3, "fl": "library.c" }}
BranchStmt: [Unconditional branch] CallICFGNode8 {fun: my_free{ "ln": 34, "cl": 2, "fl": "library.c" }} RetICFGNode23 {fun: my_malloc{ "ln": 42, "cl": 9, "fl": "library.c" }} Successor 0 ICFGNode24 br label %10, !dbg !285 { "ln": 39, "cl": 3, "fl": "library.c" } RetICFGNode9 {fun: my_free{ "ln": 34, "cl": 2, "fl": "library.c" }} IntraICFGNode27 {fun: my_malloc{ "ln": 42, "cl": 2, "fl": "library.c" }} IntraICFGNode10 {fun: my_free{ "ln": 35, "cl": 1, "fl": "library.c" }} BranchStmt: [Unconditional branch] ret void, !dbg !284 { "ln": 35, "cl": 1, "fl": "library.c" } Successor 0 ICFGNode24 br label %10, !dbg !288 { "ln": 42, "cl": 2, "fl": "library.c" } IntraICFGNode24 {fun: my_malloc{ "ln": 43, "cl": 1, "fl": "library.c" }}
LoadStmt: [Var56 <-- Var36] FunExitICFGNode11 {fun: my_free{ "ln": 33, "fl": "library.c" }} %11 = load i8*, i8** %2, align 8, !dbg !289 { "ln": 43, "cl": 1, "fl": "library.c" } IntraICFGNode26 {fun: my_malloc{ "ln": 43, "cl": 1, "fl": "library.c" }}
ret i8* %11, !dbg !289 { "ln": 43, "cl": 1, "fl": "library.c" } RetICFGNode63 {fun: close{ "ln": 75, "cl": 2, "fl": "library.c" }} RetICFGNode56 {fun: close{ "ln": 73, "cl": 2, "fl": "library.c" }} FunExitICFGNode28 {fun: my_malloc{ "ln": 43, "cl": 1, "fl": "library.c" }}
PhiStmt: [Var34 <-- ([Var56, ICFGNode26],)] IntraICFGNode57 {fun: close{ "ln": 74, "cl": 2, "fl": "library.c" }}
LoadStmt: [Var105 <-- Var91] ret i8* %11, !dbg !289 { "ln": 43, "cl": 1, "fl": "library.c" } LoadStmt: [var105 <-- var91]
%10 = load %struct.a_struct*, %struct.a_struct** %2, align 8, !dbg !291 { "ln": 74, "cl": 2, _"fl": "library.c" } Successor 0 ICFGNode51 br label %14, !dbg !296 { "ln": 77, "cl": 1, "fl": "library.c" } RetICFGNode37 {fun: create{ "ln": 47, "cl": 30, "fl": "library.c" }}
RetPE: [Var81 <-- Var34] IntraICFGNode58 {fun: close{ "ln": 74, "cl": 5, "fl": "library.c" }} GepStmt: [Var106 <-- Var105] IntraICFGNode51 {fun: close{ "ln": 77, "cl": 1, "fl": "library.c" }} ret void, !dbg !296 { "ln": 77, "cl": 1, "fl": "library.c" } %11 = getelementptr inbounds %struct.a_struct, %struct.a_struct* %10, i32 0, i32 3, !dbg !292 { "ln": 74, "cl": 5, "fl": "library.c" } | %7 = call i8* %6(i64 24), !dbg !285 { "ln": 47, "cl": 30, "fl": "library.c" } IntraICFGNode59 {fun: close{ "ln": 74, "cl": 18, "fl": "library.c" }} IntraICFGNode38 {fun: create{ "ln": 47, "cl": 17, "fl": "library.c" }} FunExitICFGNode53 {fun: close{ "ln": 77, "cl": 1, "fl": "library.c" }} StoreStmt: [Var106 <-- Var0]
store i8* null, i8** %11, align 8, !dbg !293 { "ln": 74, "cl": 18, "fl": "library.c" } %8 = bitcast i8* %7 to %struct.a_struct*, !dbg !287 { "ln": 47, "cl": 17, "fl": "library.c" } IntraICFGNode60 {fun: close{ "ln": 75, "cl": 10, "fl": "library.c" }}
LoadStmt: [Var108 <-- Var91]
%12 = load %struct.a_struct*, %struct.a_struct** %2, align 8, !dbg !294 { "ln": 75, "cl": 10, "fl": "library.c" } IntraICFGNode61 {fun: close{ "ln": 75, "cl": 10, "fl": "library.c" }} IntraICFGNode40 {fun: create{ "ln": 65, "cl": 9, "fl": "library.c" }} CopyStmt: [Var109 <-- Var108] LoadStmt: [Var85 <-- Var73] %13 = bitcast %struct.a_struct* %12 to i8*, !dbg !294 { "ln": 75, "cl": 10, "fl": "library.c" } %9 = load %struct.a_struct*, %struct.a_struct** %3, align 8, !dbg !288 { "ln": 65, "cl": 9, "fl": "library.c" } IntraICFGNode41 {fun: create{ "ln": 65, "cl": 2, "fl": "library.c" }} ret %struct.a_struct* %9, !dbg !289 { "ln": 65, "cl": 2, "fl": "library.c" }

FunExitICFGNode42 {fun: create{ "ln": 45, "fl": "library.c" }}
PhiStmt: [Var69 <-- ([Var85, ICFGNode41],)]
ret %struct.a_struct* %9, !dbg !289 { "ln": 65, "cl": 2, "fl": "library.c" }