

```
for.cond:                                ; preds = %for.inc, %entry
    %1 = load i32, i32* %i, align 4, !dbg !1292
    %2 = load i32, i32* %num.addr, align 4, !dbg !1294
    %cmp = icmp ult i32 %1, %2, !dbg !1295
    br i1 %cmp, label %for.body, label %for.end, !dbg !1296
```

```
graph TD
    for_cond[for.cond] --> for_body[for.body]
    for_cond --> for_end[for.end]
    for_body --> for_inc[for.inc]
    for_inc --> for_cond
```

```
for.body:                                ; preds = %for.cond
    %3 = load i64, i64* %num_p, align 8, !dbg !1297
    %4 = load i64, i64* %num_pp, align 8, !dbg !1299
    %add = add i64 %3, %4, !dbg !1300
    store i64 %add, i64* %fibb_num, align 8, !dbg !1301
    %5 = load i64, i64* %num_p, align 8, !dbg !1302
    store i64 %5, i64* %num_pp, align 8, !dbg !1303
    %6 = load i64, i64* %fibb_num, align 8, !dbg !1304
    store i64 %6, i64* %num_p, align 8, !dbg !1305
    br label %for.inc, !dbg !1306
```

```
for.inc:                                ; preds = %for.body
    %7 = load i32, i32* %i, align 4, !dbg !1307
    %inc = add i32 %7, 1, !dbg !1307
    store i32 %inc, i32* %i, align 4, !dbg !1307
    br label %for.cond, !dbg !1308, !llvm.loop !1309
```