

# Slay Some Earthly Demons XI

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**Undefined Behavior:** Identifier with internal and external linkage in the same TU. (J.2 (8), N3301)

**Analysis:** Having the same identifier with internal and external linkage in the same TU does not make sense and is rejected by some compilers (but not always).

## Examples:

```
void g()
{
    extern int x;
}

static int x;

static int a;
int f()
{
    int a;
    {
        extern int a; // not internal!
    }
}
```

Godbolt Links: [Example 1](#), [Example 2](#)

**Recommendation:** Make it a constraint violation.

## Wording

### 6.2.2 Linkages of identifiers

~~7 If, within a translation unit, the same identifier appears with both internal and external linkage, the behavior is undefined.~~

### 6.7 Declarations 6.7.1 General

#### Constraints

**5 Within a translation unit, the same identifier shall not appear with both internal and external linkage.**

**Acknowledgment:** The UB Study group for comments.