

**NAME**

**dwarf\_add\_AT\_reference** - create and attach an attribute that references another DIE

**LIBRARY**

DWARF Access Library (libdwarf, -ldwarf)

**SYNOPSIS**

```
#include <libdwarf.h>
```

*Dwarf\_P\_Attribute*

```
dwarf_add_AT_reference(Dwarf_P_Debug dbg, Dwarf_P_Die die, Dwarf_Half attr,  
    Dwarf_P_Die ref_die, Dwarf_Error *err);
```

**DESCRIPTION**

Function **dwarf\_add\_AT\_reference**() creates an attribute descriptor that references another debugging information entry in the same compilation unit. The attribute will be of DWARF form DW\_FORM\_ref4 or DW\_FORM\_ref8 depending on the target address size, and will contain the section-relative offset of the referenced debugging information entry as its value.

Argument *dbg* should reference a DWARF producer instance allocated using `dwarf_producer_init(3)` or `dwarf_producer_init_b(3)`.

Argument *die* should reference a debugging information entry allocated using `dwarf_new_die(3)`.

Argument *attr* should specify the attribute code of the created attribute descriptor.

Argument *ref\_die* should hold the debugging information entry descriptor that the attribute should refer to.

If argument *err* is not NULL, it will be used to store error information in case of an error.

**RETURN VALUES**

On success, function **dwarf\_add\_AT\_reference**() returns the created attribute descriptor. In case of an error, function **dwarf\_add\_AT\_reference**() returns DW\_DLV\_BADADDR and sets the argument *err*.

**ERRORS**

Function **dwarf\_add\_AT\_reference**() can fail with:

[DW\_DLE\_ARGUMENT] One of the arguments *dbg*, *die* or *ref\_die* was NULL.

[DW\_DLE\_MEMORY] An out of memory condition was encountered during the execution of the function.

**SEE ALSO**

dwarf(3), dwarf\_add\_AT\_dataref(3), dwarf\_add\_AT\_ref\_address(3), dwarf\_add\_AT\_signed\_const(3), dwarf\_add\_AT\_unsigned\_const(3), dwarf\_new\_die(3), dwarf\_producer\_init(3), dwarf\_producer\_init\_b(3)