

NAME

dwarf_add_AT_targ_address, **dwarf_add_AT_targ_address_b** - create and attach address class attributes

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

Dwarf_P_Attribute

```
dwarf_add_AT_targ_address(Dwarf_P_Debug dbg, Dwarf_P_Die die, Dwarf_Half attr,  
    Dwarf_Unsigned pc_value, Dwarf_Signed sym_index, Dwarf_Error *err);
```

Dwarf_P_Attribute

```
dwarf_add_AT_targ_address_b(Dwarf_P_Debug dbg, Dwarf_P_Die die, Dwarf_Half attr,  
    Dwarf_Unsigned pc_value, Dwarf_Unsigned sym_index, Dwarf_Error *err);
```

DESCRIPTION

Function **dwarf_add_AT_targ_address_b()** creates an attribute descriptor belonging to the 'address' class and attaches it to the debugging information entry referenced by argument *die*.

The created attribute descriptor will have DWARF form DW_FORM_addr. If flag DW_DLC_SIZE_64 is set on the producer instance, the attribute value will be 8 bytes in size. Otherwise the attribute value will be 4 bytes in size.

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 *pc_value* should hold a relocatable address value which will become the value of the created attribute descriptor.

Argument *sym_index* should specify the ELF symbol index of the symbol to be used for relocating the address value.

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

Function **dwarf_add_AT_targ_address()** is deprecated. It is similar to function **dwarf_add_AT_targ_address_b()** except that it cannot handle all possible symbol index values.

RETURN VALUES

On success, these functions return the created attribute descriptor. In case of an error, these functions return `DW_DLV_BADADDR` and sets the argument *err*.

ERRORS

These functions can fail with:

[`DW_DLE_ARGUMENT`] Either of the arguments *dbg* or *die* was `NULL`.

[`DW_DLE_MEMORY`] An out of memory condition was encountered during execution.

SEE ALSO

`dwarf(3)`, `dwarf_add_AT_const_value_unsignedint(3)`, `dwarf_add_AT_dateref(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)`