NAME

dwarf_attr - retrieve an attribute descriptor associated with a DWARF debugging information entry

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

#include <libdwarf.h>

int
dwarf_attr(*Dwarf_Die die*, *Dwarf_Half attr*, *Dwarf_Attribute *atp*, *Dwarf_Error *err*);

DESCRIPTION

Function **dwarf_attr**() retrieves the attribute descriptor for an attribute associated with the DWARF debugging information entry descriptor in argument *die*.

DWARF attribute descriptors are represented by value of the opaque type *Dwarf_Attribute*, see dwarf(3).

Argument *attr* names the desired DWARF attribute. Legal values for argument *attr* are those denoted by the DW_AT_* constants in the DWARF specification.

Argument *atp* points to a location into which the returned attribute descriptor will be written. The returned descriptor may then be passed to the form query functions in the dwarf(3) API set to access the data associated with the attribute.

If argument *err* is non-NULL, it will be used to return an error descriptor in case of an error.

RETURN VALUES

Function **dwarf_attr**() returns DW_DLV_OK on success.

If the debugging information entry descriptor denoted by argument *die* does not contain the named attribute, the function returns DW_DLV_NO_ENTRY and sets argument *err*. For other errors, it returns DW_DLV_ERROR and sets argument *err*.

ERRORS

Function **dwarf_attr**() can fail with the following errors:

[DW_DLE_ARGUMENT]   Either of arguments *die* or *atp* was NULL.

[DW_DLE_NO_ENTRY]   Argument *die* had no attribute corresponding to the value in argument *attr*.

SEE ALSO

dwarf(3), dwarf_attrlist(3), dwarf_attroffset(3), dwarf_hasattr(3), dwarf_hasform(3), dwarf_whatattr(3), dwarf_whatform(3)