NAME

dwarf_attrlist - retrieve DWARF attribute descriptors

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

#include <libdwarf.h>

int

dwarf_attrlist(Dwarf_Die die, Dwarf_Attribute **attrbuf, Dwarf_Signed *attrcount, Dwarf_Error *err);

DESCRIPTION

Function **dwarf_attrlist**() retrieves the DWARF attribute descriptors associated with a debugging information entry descriptor in argument *die*. The descriptors are returned as an array of values of the opaque type *Dwarf_Attribute*. The data associated with each returned attribute descriptor may be queried using the form query functions in the dwarf(3) API set.

Argument *attrbuf* points to a location that will hold a pointer to the returned array of DWARF attribute descriptors. Argument *attrcount* points to a location that will hold the number of descriptors in the returned array.

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

Memory Management

In the current implementation, the memory allocated for each DWARF attribute descriptor and for the returned array of descriptors is managed by the library and the application does not need to explicitly free the returned pointers. However, for compatibility with other implementations of the dwarf(3) API, the application is permitted to pass the pointers returned by to the **dwarf_dealloc**() function.

RETURN VALUES

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

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

EXAMPLES

To retrieve the attribute list for a DWARF debugging information entry use:

ERRORS

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

```
[DW_DLE_ARGUMENT] Arguments die, attrbuf, or attrcount were NULL.
```

[DW_DLE_NO_ENTRY] Argument die had no attributes.

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

SEE ALSO

```
dwarf(3), dwarf_attr(3), dwarf_hasattr(3), dwarf_hasform(3), dwarf_whatattr(3), dwarf_whatform(3)
```