NAME

dwarf_arrayorder, **dwarf_bitoffset**, **dwarf_bitsize**, **dwarf_bytesize**, **dwarf_highpc**, **dwarf_highpc_b**, **dwarf_lowpc**, **dwarf_srclang** - retrieve the value of a DWARF attribute

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

#include <libdwarf.h>

int
dwarf_arrayorder(*Dwarf_Die die*, *Dwarf_Unsigned *ret_order*, *Dwarf_Error *err*);

int
dwarf_bitoffset(*Dwarf_Die die*, *Dwarf_Unsigned *ret_size*, *Dwarf_Error *err*);

int
dwarf_bitsize(*Dwarf_Die die*, *Dwarf_Unsigned *ret_size*, *Dwarf_Error *err*);

int
dwarf_bytesize(*Dwarf_Die die*, *Dwarf_Unsigned *ret_size*, *Dwarf_Error *err*);

int
dwarf_highpc(*Dwarf_Die die*, *Dwarf_Addr *ret_highpc*, *Dwarf_Error *err*);

int
dwarf_highpc_b(*Dwarf_Die die*, *Dwarf_Addr *ret_highpc*, *Dwarf_Half *ret_form*,
  *enum Dwarf_Form_Class *ret_class*, *Dwarf_Error *err*);

int
dwarf_lowpc(*Dwarf_Die die*, *Dwarf_Addr *ret_lowpc*, *Dwarf_Error *err*);

int
dwarf_srclang(*Dwarf_Die die*, *Dwarf_Unsigned *ret_lang*, *Dwarf_Error *err*);

DESCRIPTION

These convenience functions are used to retrieve DWARF attribute values associated with a Debugging Information Entry (DIE) descriptor denoted by argument *die*. These functions store the value of the requested attribute into the location pointed to by their second argument, provided that the requested attribute exists in the debugging information entry.

The list of functions and the DWARF attribute that they retrieve are:

dwarf_arrayorder()
> Retrieve the DW_AT_ordering attribute value.

dwarf_bitoffset() Retrieve the DW_AT_bit_offset attribute value.

dwarf_bitsize()   Retrieve the DW_AT_bit_size attribute value.

dwarf_bytesize() Retrieve the DW_AT_byte_size attribute value.

dwarf_highpc()   Retrieve the DW_AT_high_pc attribute value.

dwarf_highpc_b()
> Retrieve the DW_AT_high_pc attribute value.

dwarf_lowpc()   Retrieve the DW_AT_low_pc attribute value.

dwarf_srclang()   Retrieve the DW_AT_language attribute value.

Function **dwarf_highpc_b**() is an enhanced version of function **dwarf_highpc**(). It sets the location specified by argument *ret_form* to the form code of the attribute DW_AT_high_pc, and sets the location specified by argument *ret_class* to the class of that form. A value of NULL may be used for either of the arguments *ret_form* or *ret_class* if the caller is not interested in the respective value.

RETURN VALUES

These functions return DW_DLV_OK on success.

If the debugging information entry descriptor denoted by argument *die* does not contain the requested attribute, these functions return DW_DLV_NO_ENTRY and set argument *err*. For other errors, they return DW_DLV_ERROR and set argument *err*.

ERRORS

These functions can fail with the following errors:

[DW_DLE_ARGUMENT]   Arguments *die*, *ret_highpc*, *ret_lowpc*, *ret_size*, *ret_lang* or *ret_order* were NULL.

[DW_DLE_NO_ENTRY]   Argument *die* had no requested attribute.

SEE ALSO

dwarf(3), dwarf_attr(3), dwarf_attrlist(3), dwarf_get_form_class(3), dwarf_hasattr(3)