

NAME

dwarf_hasform, **dwarf_whatform**, **dwarf_whatform_direct** - query attribute forms

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

int

```
dwarf_hasform(Dwarf_Attribute attr, Dwarf_Half form, Dwarf_Bool *ret, Dwarf_Error *err);
```

int

```
dwarf_whatform(Dwarf_Attribute attr, Dwarf_Half *retform, Dwarf_Error *err);
```

int

```
dwarf_whatform_direct(Dwarf_Attribute attr, Dwarf_Half *retform, Dwarf_Error *err);
```

DESCRIPTION

Function **dwarf_hasform()** indicates whether the DWARF attribute denoted by argument *attr* has the attribute form specified by argument *form*. If the attribute has the specified form, then argument *ret* is set to a non-zero value, otherwise it is set to zero. If argument *err* is non-NULL, it will be used to return an error descriptor in case of an error.

Function **dwarf_whatform()** sets the location specified by argument *retform* to the attribute form code for the DWARF attribute referenced by argument *attr*. If the attribute referenced by argument *attr* has an indirect form attribute, this function will return the final form for the attribute. If argument *err* is non-NULL, it will be used to return an error descriptor in case of an error.

Function **dwarf_whatform_direct()** sets the location specified by argument *retform* to the attribute form code for the DWARF attribute referenced by argument *attr*. If the form is an indirect form, the function sets the location specified by argument *retform* to DW_FORM_indirect. If argument *err* is non-NULL, it will be used to return an error descriptor in case of an error.

RETURN VALUES

These functions return DW_DLV_OK on success. In case of an error, these functions return DW_DLV_ERR and set argument *err*.

ERRORS

These functions may fail with the following errors:

[DW_DLE_ARGUMENT] Any of the arguments *attr*, *ret*, or *retform* was NULL.

SEE ALSO

dwarf(3), dwarf_attr(3), dwarf_hasattr(3)