

NAME

dwarf_formref, **dwarf_global_formref** - retrieve offsets for REFERENCE class attributes

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

int

```
dwarf_formref(Dwarf_Attribute attr, Dwarf_Off *retoffset, Dwarf_Error *err);
```

int

```
dwarf_global_formref(Dwarf_Attribute attr, Dwarf_Off *retoffset, Dwarf_Error *err);
```

DESCRIPTION

These functions return the offsets associated with a DWARF attribute descriptor.

Function **dwarf_formref**() returns the compilation unit relative offset of the descriptor referenced by argument *attr* in the location pointed to by argument *retoffset*. Argument *attr* must be a reference that is local to a compilation unit. Permitted forms for argument *attr* are DW_FORM_ref1, DW_FORM_ref2, DW_FORM_ref4, DW_FORM_ref8 and DW_FORM_ref_udata.

Function **dwarf_global_formref**() returns the section-relative offset of the descriptor referenced by argument *attr* in the location pointed to by argument *retoffset*. Argument *attr* should be a legal **REFERENCE** class form. Permitted forms for argument *attr* are: DW_FORM_ref_addr, DW_FORM_ref_udata, DW_FORM_ref1, DW_FORM_ref2, DW_FORM_ref4, DW_FORM_ref8 and DW_FORM_sec_offset. The returned offset is relative to the start of the ".debug_info" ELF section.

If argument *err* is not 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_ERROR and sets argument *err*.

ERRORS

These functions may fail with the following errors:

[DW_DLE_ARGUMENT] Either of arguments *attr* or *retoffset* was NULL.

[DW_DLE_ATTR_FORM_BAD] The attribute referenced by argument *attr* was not of a permitted kind.

SEE ALSO

dwarf(3), dwarf_attr(3), dwarf_formblock(3), dwarf_formflag(3), dwarf_formsdata(3), dwarf_formsig8(3), dwarf_formstring(3), dwarf_formudata(3), dwarf_hasattr(3)