#### **NAME**

dwarf get fde info for reg - retrieve register rule

## **LIBRARY**

DWARF Access Library (libdwarf, -ldwarf)

#### **SYNOPSIS**

#include <libdwarf.h>

int

dwarf\_get\_fde\_info\_for\_reg(Dwarf\_Fde fde, Dwarf\_Half table\_column, Dwarf\_Addr pc,
Dwarf\_Signed \*offset\_relevant, Dwarf\_Signed \*register\_num, Dwarf\_Signed \*offset,
Dwarf\_Addr \*row\_pc, Dwarf\_Error \*error);

## DESCRIPTION

Function **dwarf\_get\_fde\_info\_for\_reg**() retrieves a register rule from the register rule table associated with a given FDE descriptor, given a program counter address and rule column number.

Argument fde should reference a valid DWARF FDE descriptor.

Arugment *table\_column* should hold the column number of the register rule desired.

Argument pc should hold the program counter address to be used to locate the desired register rule row.

On successful execution, **dwarf\_get\_fde\_info\_for\_reg**() stores information about the register rule found into the locations pointed to by the arguments *offset\_relevant*, *register\_num*, *offset* and *row\_pc*.

If there is an offset value associated with the register rule, the location pointed to by argument *offset\_relevant* will be set to 1.

Argument *register\_num* should point to a location which will hold the register number associated with the register rule.

Argument *offset* should point to a location which will be set to the offset value associated with the register rule, or to 0 if the register rule does not have an offset value.

Argument *row\_pc* should point to a location which will be set to the lowest program counter address associated with the register rule found.

If argument *err* is not NULL, it will be used to return an error descriptor in case of an error.

## **COMPATIBILITY**

Function **dwarf\_get\_fde\_info\_for\_reg**() is deprecated since it only supports DWARF2 frame sections. Applications should instead use function dwarf\_get\_fde\_info\_for\_reg3(3) which supports both DWARF2 and DWARF3 frame sections.

## **RETURN VALUES**

Function **dwarf\_get\_fde\_info\_for\_reg**() returns DW\_DLV\_OK when it succeeds. In case of an error, it returns DW\_DLV\_ERROR and sets the argument *err*.

## **ERRORS**

Function **dwarf\_get\_fde\_info\_for\_reg**() can fail with:

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*offset* or *row\_pc* was NULL.

[DW\_DLE\_FRAME\_TABLE\_COL\_BAD] The column number provided in argument *table\_column* 

was too large.

[DW\_DLE\_PC\_NOT\_IN\_FDE\_RANGE] The program counter value provided in argument pc did

not fall in the range covered by argument fde.

# **SEE ALSO**

```
dwarf(3), dwarf_get_fde_at_pc(3), dwarf_get_fde_info_for_all_regs(3), dwarf_get_fde_info_for_all_regs3(3), dwarf_get_fde_info_for_cfa_reg3(3), dwarf_get_fde_info_for_reg3(3), dwarf_get_fde_n(3), dwarf_set_frame_cfa_value(3), dwarf_set_frame_rule_initial_value(3), dwarf_set_frame_rule_table_size(3), dwarf_set_frame_same_value(3), dwarf_set_frame_undefined_value(3)
```