NAME

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dwarf_get_fde_info_for_all_regs - retrieve register rule row
```

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

int

```
dwarf_get_fde_info_for_all_regs(Dwarf_Fde fde, Dwarf_Addr pc, Dwarf_Regtable *reg_table,
Dwarf_Addr *row_pc, Dwarf_Error *err);
```

DESCRIPTION

Function **dwarf_get_fde_info_for_all_regs**() retrieves a row from the register rule table associated with the given FDE descriptor.

Argument fde should reference a valid DWARF FDE descriptor.

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

Argument *reg_table* should point to a *Dwarf_Regtable* descriptor which will hold the returned table row of register rules.

Argument *row_pc* should point to a location which will be set to the lowest program counter address associated with the table row.

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

The *Dwarf_Regtable* descriptor is defined in the header file *libdwarf.h>*:

For each of the register rules returned, the dw offset relevant field is set to 1 if the register rule has a

offset value. The dw_regnum field is set to the register number associated with the register rule. The dw_regnum field is set to the offset value associated with the register rule.

The number of register columns returned is either the constant value DW_REG_TABLE_SIZE as defined in the header file *libdwarf.h>*, or the value set by function dwarf_set_frame_rule_table_size(3), whichever is smaller.

COMPATIBILITY

Function **dwarf_get_fde_info_for_all_regs**() is deprecated since it only supports DWARF2 frame sections. Applications should instead use function dwarf_get_fde_info_for_all_regs3(3) which supports both DWARF2 and DWARF3 frame sections.

RETURN VALUES

Function **dwarf_get_fde_info_for_all_regs**() 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_all_regs**() can fail with:

[DW DLE ARGUMENT]

One of the arguments fde, reg_table or row_pc was NULL.

[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_regs3(3), dwarf_get_fde_info_for_cfa_reg3(3), dwarf_get_fde_info_for_reg(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)
```