

NAME

dwarf_get_cie_info - retrieve information associated with a CIE descriptor

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

int

```
dwarf_get_cie_info(Dwarf_Cie cie, Dwarf_Unsigned *cie_byte_len, Dwarf_Small *version,  
char **augmentation, Dwarf_Unsigned *caf, Dwarf_Unsigned *daf, Dwarf_Half *ra,  
Dwarf_Ptr *init_inst, Dwarf_Unsigned *inst_len, Dwarf_Error *err);
```

DESCRIPTION

Function **dwarf_get_cie_info**() retrieves the information associated with a given CIE descriptor.

Argument *cie* should reference a valid DWARF CIE descriptor, such as would be returned by function **dwarf_get_cie_of_fde**(3).

Argument *cie_byte_len* should point to a location that will hold the length in bytes of the CIE descriptor itself.

Argument *version* should point to a location that will hold the version number of the CIE descriptor.

Argument *augmentation* should point to a location that will be set to a pointer to a NUL-terminated string containing augmentation data encoded as UTF-8.

Argument *caf* should point to a location that will hold the code alignment factor recorded in the CIE descriptor.

Argument *daf* should point to a location that will hold the data alignment factor recorded in the CIE descriptor.

Argument *ra* should point to a location that will hold the return address recorded in the CIE descriptor.

Argument *init_inst* should point to a location that will be set to a pointer to an array of bytes containing the initial instructions associated with the CIE descriptor.

Argument *inst_len* should point to a location that will hold the length in bytes of the initial instructions

returned in argument *init_inst*.

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

RETURN VALUES

Function **dwarf_get_cie_info()** 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_cie_info()** can fail with:

[DW_DLE_ARGUMENT] One of the arguments *cie*, *cie_byte_len*, *version*, *augmentation*, *caf*, *daf*, *ra*, *init_inst* or *inst_len* was NULL.

SEE ALSO

dwarf(3), **dwarf_get_cie_index(3)**, **dwarf_get_cie_of_fde(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_reg(3)**, **dwarf_get_fde_info_for_reg3(3)**,
dwarf_get_fde_instr_bytes(3), **dwarf_get_fde_list(3)**, **dwarf_get_fde_list_eh(3)**, **dwarf_get_fde_n(3)**,
dwarf_get_fde_range(3)