

NAME

dwarf_add_frame_cie - add a call frame common information entry to a DWARF producer instance

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

Dwarf_Unsigned

```
dwarf_add_frame_cie(Dwarf_P_Debug dbg, char *augmenter, Dwarf_Small caf, Dwarf_Small daf,  
    Dwarf_Small ra, Dwarf_Ptr initinst, Dwarf_Unsigned initlen, Dwarf_Error *err);
```

DESCRIPTION

Function **dwarf_add_frame_cie()** adds a DWARF call frame common information entry (CIE) to a producer instance.

Argument *dbg* should reference a DWARF producer instance allocated using **dwarf_producer_init(3)** or **dwarf_producer_init_b(3)**.

Argument *augmenter* should point to a NUL-terminated augmentation string for the common information entry.

Argument *caf* specifies the code alignment factor.

Argument *daf* specifies the data alignment factor.

Argument *ra* specifies the column number used for the return address register.

Argument *initinst* should point to a byte stream containing the initial instructions for the common information entry.

Argument *initlen* should hold the length in bytes of the byte stream pointed to by argument *initinst*.

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

RETURN VALUES

On success, function **dwarf_add_frame_cie()** returns the index value of the created common information entry. In case of an error, function **dwarf_add_frame_cie()** returns DW_DLV_NOCOUNT and sets the argument *err*.

ERRORS

Function **dwarf_add_frame_cie()** can fail with:

[DW_DLE_ARGUMENT] Argument *dbg* was NULL.

[DW_DLE_MEMORY] An out of memory condition was encountered during the execution of the function.

SEE ALSO

`dwarf(3)`, `dwarf_add_fde_inst(3)`, `dwarf_add_frame_fde(3)`, `dwarf_add_frame_fde_b(3)`,
`dwarf_fde_cfa_offset(3)`, `dwarf_new_fde(3)`, `dwarf_producer_init(3)`, `dwarf_producer_init_b(3)`