

NAME

dwarf_add_file_decl - add a source file entry to a producer instance

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

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

Dwarf_Unsigned

```
dwarf_add_file_decl(Dwarf_P_Debug dbg, char *name, Dwarf_Unsigned dirndx,
    Dwarf_Unsigned mtime, Dwarf_Unsigned size, Dwarf_Error *err);
```

DESCRIPTION

Function **dwarf_add_file_decl**() adds a source file entry 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 *name* should point to a NUL-terminated string containing the name of the source file.

If the file name in argument *name* is not a fully qualified pathname, argument *dirndx* should specify the index of the directory where the source file resides. Otherwise, argument *dirndx* should be 0. Valid directory indices are those returned by the function **dwarf_add_directory_decl**(3).

Argument *mtime* specifies the time when the file was last modified.

Argument *size* specifies the size of the file in bytes.

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_file_decl**() returns the index value generated for the source file. In case of an error, function **dwarf_add_file_decl**() returns DW_DLV_NOCOUNT and sets the argument *err*.

ERRORS

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

[DW_DLE_ARGUMENT] Either arguments *dbg* or *name* was NULL.

[DW_DLE_ARGUMENT] The length of the NUL-terminated string pointed to by argument *name* was 0.

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

SEE ALSO

dwarf(3), dwarf_add_directory_decl(3), dwarf_add_line_entry(3), dwarf_lne_end_sequence(3), dwarf_lne_set_address(3), dwarf_producer_init(3), dwarf_producer_init_b(3)