NAME

dwarf_add_arange, **dwarf_add_arange_b -** add address range information to a DWARF producer instance

LIBRARY

DWARF Access Library (libdwarf, -ldwarf)

SYNOPSIS

#include <libdwarf.h>

Dwarf_Unsigned
dwarf_add_arange(*Dwarf_P_Debug dbg*, *Dwarf_Addr start*, *Dwarf_Unsigned length*,
   Dwarf_Signed symbol_index, *Dwarf_Error *err*);

Dwarf_Unsigned
dwarf_add_arange_b(*Dwarf_P_Debug dbg*, *Dwarf_Addr start*, *Dwarf_Unsigned length*,
   Dwarf_Unsigned symbol_index, *Dwarf_Unsigned end_symbol_index*,
   Dwarf_Addr offset_from_end_symbol, *Dwarf_Error *err*);

DESCRIPTION

Function **dwarf_add_arange_b**() adds an address range 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 *start* specifies the relocatable start address of the address range.

Argument *length* specifies the length of the address range.

Argument *symbol_index* specifies the ELF symbol index of the first symbol to be used for relocation.

Argument *end_symbol_index* specifies the ELF symbol index of the second symbol to be used for relocation.

- If argument *end_symbol_index* is not 0, the DW_DLC_SYMBOLIC_RELOCATIONS flag should have been set on the DWARF producer instance. The address value specified by argument *start* will be treated as an offset value from the first symbol, and the argument *offset_from_end_symbol* should hold an offset value from the second symbol. Application code can retrieve the relocation entries for the symbol pair by calling function dwarf_get_relocation_info(3). The relocation entry for the first symbol will have type dwarf_drt_first_of_length_pair and the relocation entry for the second symbol will have type dwarf_drt_second_of_length_pair.

- If argument *end_symbol_index* is 0, argument *offset_from_end_symbol* will be ignored and only one symbol is used for relocation.

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

Function **dwarf_add_arange**() is deprecated. It is similar to function **dwarf_add_arange_b**() except that it cannot handle all possible symbol index values and supports only one relocation symbol.

RETURN VALUES

On success, these functions return a non-zero value. In case of an error, these functions return 0 and set the argument *err*.

ERRORS

These functions can fail with:

[DW_DLE_ARGUMENT] Argument *dbg* was NULL.

[DW_DLE_ARGUMENT] Argument *end_symbol_index* was non-zero, but the flag DW_DLC_SYMBOLIC_RELOCATIONS was not set on the producer instance.

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

SEE ALSO

dwarf(3), dwarf_get_relocation_info(3), dwarf_producer_init(3), dwarf_producer_init_b(3)