

Offset	Size	Name	Description
00h	WORD	ne_magic	Signature word NEMAGIC
On-disk			
02h	BYTE	ne_ver	Version number of the linker
03h	BYTE	ne_rev	Revision number of the linker
In-memory			
02h	WORD	count	Usage count (ne_ver/ne_rev on disk)
04h	WORD	ne_enttab	Entry Table file offset, relative to the beginning of the segmented EXE header
On-disk			
06h	WORD	ne_cbenttab	Number of bytes in the entry table
In-memory			
06h	WORD	next	Selector to next module
On-disk			
08h	DWORD	ne_crc	32-bit CRC of entire contents of file. These words are taken as 00 during the calculation
In-memory			
08h	WORD	dgroup_entry	Near ptr to segment entry for DGROUP
0Ah	WORD	fileinfo	Near ptr to file info (OFSTRUCT)
0Ch	WORD	ne_flags	Flag word
0Eh	WORD	ne_autodata	Segment number of automatic data segment. This value is set to zero if SINGLEDATA and MULTIPLEDATA flag bits are clear, NOAUTODATA is indicated in the flags word. A Segment number is an index into the module's segment table. The first entry in the segment table is segment number 1
10h	WORD	ne_heap	Initial size, in bytes, of dynamic heap added to the data segment. This value is zero if no initial local heap is allocated
12h	WORD	ne_stack	Initial size, in bytes, of stack added to the data segment. This value is zero to indicate no initial stack allocation, or when SS is not equal to DS
14h	DWORD	ne_csip	Segment number:offset of CS:IP

#### On-disk segment entry

Offset	Size	Name	Description
00h	WORD	ns_sector	Logical-sector offset (n byte) to the contents of the segment data, relative to the beginning of the file. Zero means no file data
02h	WORD	ns_cbseg	Length of the segment in the file, in bytes. Zero means 64K
04h	WORD	ns_flags	Flag word
06h	WORD	ns_minalloc	Minimum allocation size of the segment, in bytes. Total size of the segment. Zero means 64K

#### In-memory segment entry

Offset	Size	Name	Description
00h	WORD	ns1_sector	Logical-sector offset (n byte) to the contents of the segment data, relative to the beginning of the file. Zero means no file data
02h	WORD	ns1_cbseg	Length of the segment in the file, in bytes. Zero means 64K
04h	WORD	ns1_flags	Flag word
06h	WORD	ns1_minalloc	Minimum allocation size of the segment, in bytes. Total size of the segment. Zero means 64K
08h	WORD	ns1_handle	Selector or handle (selector - 1) of segment in memory

```
struct new_segdata {
```

```
    union {
        struct {
            WORD    ns_niter;
            WORD    ns_nbytes;
            char    ns_iterdata;
        } ns_iter;
        struct {
            char    ns_data;
        } ns_noniter;
    } ns_union;
```

```
};
```

```
struct new_rlinfo {
```

```
    WORD    nr_nreloc;
```

```
};
```

```
struct new_rlc {
```

```
    char    nr_stype;
    char    nr_flags;
    WORD    nr_soff;
    union {
        struct {
            char    nr_segno;
            char    nr_res;
            WORD    nr_entry;
        } nr_intref;
        struct {
            WORD    nr_mod;
            WORD    nr_proc;
        } nr_import;
        struct {
            WORD    nr_ostype;
            WORD    nr_osres;
        } nr_osfix;
    } nr_union;
```

```

};

#define NR_STYPE(x) (x).nr_stype #define NR_FLAGS(x) (x).nr_flags #define NR_SOFF(x) (x).nr_soff
#define NR_SEGNO(x) (x).nr_union.nr_intref.nr_segno #define NR_RES(x) (x).nr_union.nr_intref.nr_res
#define NR_ENTRY(x) (x).nr_union.nr_intref.nr_entry #define NR_MOD(x)
(x).nr_union.nr_import.nr_mod #define NR_PROC(x) (x).nr_union.nr_import.nr_proc #define
NR_OSTYPE(x) (x).nr_union.nr_osfix.nr_ostype #define NR_OSRES(x) (x).nr_union.nr_osfix.nr_osres

#define NRSTYP 0x0f #define NRSBYT 0x00 #define NRSSEG 0x02 #define NRSPTR 0x03 #define
NRSOFF 0x05 #define NRPTR48 0x06 #define NROFF32 0x07 #define NRSOFF32 0x08

#define NRADD 0x04 #define NRRTYP 0x03 #define NRRINT 0x00 #define NRRORD 0x01 #define
NRRNAM 0x02 #define NRROSF 0x03 #define NRICHAIN 0x08

#if (EXE386 == 0)

#define RS_LEN(x) (x).rs_len #define RS_STRING(x) (x).rs_string #define RS_ALIGN(x) (x).rs_align

#define RT_ID(x) (x).rt_id #define RT_NRES(x) (x).rt_nres #define RT_PROC(x) (x).rt_proc

#define RN_OFFSET(x) (x).rn_offset #define RN_LENGTH(x) (x).rn_length #define RN_FLAGS(x)
(x).rn_flags #define RN_ID(x) (x).rn_id #define RN_HANDLE(x) (x).rn_handle #define RN_USAGE(x)
(x).rn_usage

#define RSORDID 0x8000

#define RNMOVE 0x0010 #define RNPURE 0x0020 #define RNPRELOAD 0x0040 #define RNDISCARD
0xF000

#define NE_FFLAGS_LIBMODULE 0x8000

struct rsrc_string {

    char    rs_len;
    char    rs_string[1];

};

struct rsrc_typeinfo {

    WORD    rt_id;
    WORD    rt_nres;
    DWORD   rt_proc;

};

struct rsrc_nameinfo {

    WORD    rn_offset;
    WORD    rn_length;
    WORD    rn_flags;
    WORD    rn_id;
    WORD    rn_handle;

```

```
WORD rn_usage;
```

```
};
```

```
struct new_rsrc {
```

```
WORD rs_align;  
struct rsrc_typeinfo rs_typeinfo;
```

```
};
```

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