BSTR Wide String Length

Macros

```
#define GET_BSTR_LEN(bstr_)
```
Retrieve the length of a BSTR containing wide characters.

```
#define SET_BSTR_LEN(bstr_, length_)
```
Update the length of a BSTR containing wide characters.

Detailed Description

Get or set the length of a BSTR.

Macro Definition Documentation

◆ GET_BSTR_LEN

```
#define GET_BSTR_LEN ( bstr_ )
```

Value:

```
((UINT)(((UINT *)(void *)(bstr_))[-1] / sizeof(WCHAR)))
```

Retrieve the length of a BSTR containing wide characters.

This is just a simple macro alternative for SysStringLen() to get the length of a BSTR as number of wide characters. The null-terminating character is not counted.

Parameters
    bstr_ Non-NULL BSTR.

◆ SET_BSTR_LEN

```
#define SET_BSTR_LEN ( bstr_,
                       length_ )
```

Value:

```
((UINT *)(void *)(bstr_))[-1] = (UINT)((length_) * sizeof(WCHAR))
```

Update the length of a BSTR containing wide characters.

This is necessary for uninitialized or default-initialized containers as soon as the content of the string buffer was updated, also if a BSTR is reused with new content of a different length.

> **Note**
> No matter if the buffer of the updated string was heap-allocated or not, ensure that the memory boundaries were not violated, the null-terminating character was appended properly and the length to set meets the actual length of the represented data. An update of the length prefix using this macro does not change the size of the allocated memory space.

Parameters
    bstr_   Non-NULL BSTR.
    length_ Length of the represented string, in wide characters. The null-terminating character is not counted.