

Neuron Data Elements Environment Element Application Services

Version 4.0

C++ Reference Summary

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NDArgs:: Class

Function	Returns	Arguments	Descriptions
GetAll	ArrayPtr	(void);	Returns list of all arguments (including application name itself).
GetExecName	CStr	(void);	Returns the application name.
GetFirst	CStr	(void);	Returns the first argument after the application name.
GetNext	CStr	(void);	Returns the next argument.
GetNth	CStr	(ArgIVal <i>n</i>);	Returns the <i>n</i> th argument.
GetNum	ArgIVal	(void);	Returns number of arguments (including application name itself).
Init	void	(CRTL_int <i>argc</i> , CRTL_char** <i>argv</i>);	Should be called from main routine before any other initialization.
InsertNth	void	(ArgIVal <i>n</i> , CStr <i>arg</i>);	Inserts the new argument <i>arg</i> into the list at given index <i>n</i> .
RemoveNth	void	(ArgIVal <i>n</i>);	Extract the <i>n</i> th argument from the list.

ArNum Class

Function	Returns	Arguments	Description
~NDArNum 7	void	(void);	Destructor
AppendElt 10	void	(void);	
ContainsElt 9	void	(void);	
ExtractElt 12	void	(void);	
ExtractNthElt 12	void	(void);	
FindElt 9	void	(void);	
GetLen 8	ArrayIVal	(void);	Returns the number of elements in the ARNUM.
GetNthElt 8	void	(void);	
InsertNthElt 11	void	(void);	
IsEmpty 8	BoolEnum	(void);	Returns whether the ARNUM is empty or not.
IsInRange 8	BoolEnum	(void);	
IsSorted 13	void	(void);	
LookupElt 9	void	(void);	

Function	Returns	Arguments	Description
NDArNum 6	void	(void);	Default ARNUM construction.
RemoveDupls 13	void	(void);	
RemoveElt 11	void	(void);	
RemoveNthElt 11	void	(void);	
Reset 7	void	(void);	Resets the contents of the ARNUM
SetAlloc 7	void	(ArrayIVal alloc);	Reallocates the contents of the ARNUM
SetLen 7	void	(ArrayIVal len);	Sets the number of elements of the ARNUM to 'len' and reallocates the contents of the ARNUM if necessary.
SetNthElt 8	void	(void);	
Sort 12	void	(void);	
SortedExtractElt 12	void	(void);	
SortedFindElt 10	void	(void);	
SortedInsertElt 11	void	(void);	
SortedLookupElt 10	void	(void);	
SortedRemoveDupls 13	void	(void);	
SortedUniqInsertElt 11	void	(void);	

Function	Returns	Arguments	Description
UnboundedGetNthElt 8	void	(void);	
UnboundedSetNthElt 9	void	(void);	

NDArObjOfAROBJ_ELT:: Class

Function	Returns	Arguments	Descriptions
~NDArObj	void	(void);	Destroys the array and all its elements..
AppendElt	void	(const <i>AROBJ_ELT elt</i>);	Adds `elt' at the end of the array.
ContainsElt	BoolEnum	(const <i>AROBJ_ELT elt</i>);	Returns BOOL_TRUE if the array contains an object equal to `elt'.
ExtractElt	void	(const <i>AROBJ_ELT elt</i>);	Same as corresponding <code>NDArObjOfAROBJ_ELT::RemoveElt</code> call but preserves the relative ordering of the elements in the array.
ExtractNthElt	void	(ArrayIVal <i>i</i>);	Removes the element at index `i'.
FindElt	ArrayIVal	(const <i>AROBJ_ELT elt</i>);	Same as <code>AROBJ_Lookup</code> routine but signal a failure if `elt'.
GetLen	ArrayIVal	(void);void	Returns the number of elements in the array.
GetNthElt			
InsertNthElt	AROBJ_ELT	(ArrayIVal <i>i</i>);	Returns a const reference to the element at index `i'.
IsEmpty	void	(ArrayIVal <i>i</i>);	Returns whether the array is empty.
IsInRange	void	(ArrayIVal <i>i</i>);	Returns BOOL_TRUE if `i' is a valid index for the array (in the range [0, len-1] where len is the length of the array).
IsSorted	void	(CmpProc <i>proc</i>) const;	Returns BOOL_TRUE if the array is sorted according to `proc'.
LookupElt	ArrayIVal	(const <i>AROBJ_ELT elt</i>);	Returns the index of the first occurrence of an object which is equal to `elt'.
NDArObj	void	(void);	Default <code>AROBJ</code> construction.
RemoveDupls	void	(void);	Removes duplicate elements in the array.
RemoveElt	void	(const <i>AROBJ_ELT elt</i>);	Removes the first occurrence of `elt' in the array.
RemoveNthElt	void	(ArrayIVal <i>i</i>)	Removes the element at index `i'.
Reset	void	(void);	Resets the contents of the array.

Function	Returns	Arguments	Descriptions
SetAlloc	void	(ArrayIVal <i>alloc</i>);	Reallocates the capacity of the array for <code>`alloc'</code> elements if necessary but does not change the number of elements in the array.
SetLen	void	(ArrayIVal <i>len</i>);	Sets the number of elements of the array to <code>`len'</code> .
SetNthElt	void	(ArrayIVal <i>i</i> , const <i>AROBJ_ELT elt</i>);	Sets the element at index <code>`i'</code> to copy to object <code>`elt'</code> .
Sort	void	(CmpProc <i>proc</i>);	Sorts the array using <code>`proc'</code> to compare the elements.
SortedExtractElt	void	(CmpProc <i>proc</i> , <i>elt</i>);	Extracts <code>`elt'</code> , using <code>`proc'</code> to compare elements of the array.
SortedFindElt	ArrayIVal	(CmpProc <i>proc</i> , <i>AROBJ_KEY key</i>);	Searches element which matches <code>`key'</code> in the array.
SortedInsertElt	void	(CmpProc <i>proc</i> , const <i>AROBJ_ELT elt</i>);	Insert a copy of <code>`elt'</code> , using <code>`proc'</code> to compare addresses the array elements.
SortedLookupElt	BoolEnum	(CmpProc <i>proc</i> , <i>AROBJ_KEY key</i> , <i>ArrayIValPtr result</i>);	Searches element which matches <code>key</code> in the array.
SortedRemoveDups	void	(void);	Removes duplicates in the array, assumes that it is sorted.
SortedUniqInsertElt	ArrayIVal	(CmpProc <i>proc</i> , const <i>AROBJ_ELT elt</i>);	Same as <code>NDArObjOfAROBJ_ELT::SortedInsertElt</code> but does not insert if the element is already in the array.
UniqAppendElt	void	(const <i>AROBJ_ELT elt</i>);	Appends <code>`elt'</code> to the array if <code>`elt'</code> is not already in the array.

NDArPtr:: Class

Function	Returns	Arguments	Description
AppendElt	void	(ARPTR_ELT <i>elt</i>);	Adds `elt' at the end of the ARPTR.
Construct	void	(void);	Default ARPTR constructor.
ConstructAlloc	void	(ArrayIVal <i>alloc</i>);	Constructs the ARPTR with 0 elements but a buffer allocated for `alloc' elements.
ConstructArPtr	void	(ArPtrPtr <i>arptr2</i>);	Constructs the ARPTR as a copy of `arptr2'
ContainsElt	BoolEnum	(ARPTR_ELT <i>elt</i>)	Returns whether or not the ARPTR contains `elt'.
ExtractElt	void	(ARPTR_ELT <i>elt</i>);	Same as corresponding ARPTR_Remove calls but preserve the relative ordering of the elements in the ARPTR.
ExtractNthElt	void	(ArrayIVal <i>i</i>);	Removes the element at index `i'.
FindElt	ArrayIVal	(ARPTR_ELT <i>elt</i>);	Same as ARPTR_Lookup routines but signal a failure if the ARPTR does not contain `elt'.
GetLen	ArrayIVal	(void);	Returns the number of elements in the ARPTR.
GetNthElt	ARPTR_ELT	(ArrayIVal <i>i</i>);	Returns the element at index `i'.
GetNthEltAddr	ARPTR_ELT Ptr	(ArrayIVal <i>i</i>);	Returns the address of the element at index `i'.
InsertNthElt	void	(ArrayIVal <i>i</i> , ARPTR_ELT <i>elt</i>);	Inserts `elt' at index `i'.
IsEmpty	BoolEnum	(void);	Returns whether the ARPTR is empty or not.
IsInRange	BoolEnum	(ArrayIVal <i>i</i>);	Returns whether `i' is a valid index for the ARPTR (in the [0, len-1] range, where len is the length of the ARPTR).
IsSorted	void	(CmpProc <i>proc</i>);	Returns whether a is sorted or not according to `proc'.

Function	Returns	Arguments	Description
LookupElt	ArrayIVal	(ARPTR_ELT <i>elt</i>);	Returns the index of the first occurrence of `elt' in the ARPTR. Returns -1 if the ARPTR does not contain `elt'.
RemoveDupls	void	(void);	Removes duplicate elements in the ARPTR.
RemoveElt	void	(ARPTR_ELT <i>elt</i>);	Removes the first occurrence of `elt' in the ARPTR.
RemoveNthElt	void	(ArrayIVal <i>i</i>);	Removes the element at index `i'.
Reset	void	(void);	Resets the contents of the ARPTR.
SetAlloc	void	(ArrayIVal <i>alloc</i>);	Reallocates the contents of the ARPTR for `alloc' elements if necessary but does not change the number of elements in the ARPTR.
SetLen	void	(ArrayIVal <i>len</i>);	Sets the number of elements of the ARPTR to `len' and reallocates the contents of the ARPTR if necessary.
SetNthElt	void	(ArrayIVal <i>i</i> , ARPTR_ELT <i>elt</i>);	Sets the element at index `i'.
Sort	void	(CmpProc <i>proc</i>);	Sorts the ARPTR.
SortedExtractElt	ArrayIVal	(CmpProc <i>cmp</i> , ARPTR_ELT <i>elt</i>);	Extracts `elt', using `proc' to compare elements of the ARPTR.
SortedFindElt	ArrayIVal	(CmpProc <i>proc</i> , ARPTR_KEY <i>key</i>);	Searches element which matches `key' in the ARPTR.
SortedInsertElt	ArrayIVal	(CmpProc <i>proc</i> , ARPTR_ELT <i>elt</i>);	Insert `elt', using `proc' to compare elements of the ARPTR.
SortedLookupElt	BoolEnum	(CmpProc <i>proc</i> , ARPTR_KEY <i>key</i> , ArrayIValPtr <i>result</i>);	Searches element which matches key in the ARPTR.
SortedRemoveDupls	void	(void);	Removes duplicates in the ARPTR, assumes that it is sorted.

Function	Returns	Arguments	Description
SortedUniqInsertElt	ArrayIVal	(CmpProc <i>proc</i> , ARPTR_ELt <i>elt</i>);	Same as ARPTR_SortedXXX calls but do not insert if the element is already in the ARPTR.
UnboundedGetNthElt	APPTR_ELt	(ArrayIVal <i>i</i>);	Same as ARPTR_GetNthElt but returns 0 if <i>i</i> is out of range instead of failing.
UnboundedSetNthElt	void	(ArrayIVal <i>i</i> , ARPTR_ELt <i>elt</i>);	Same as ARPTR_SetNthElt but extends the array if <i>i</i> is out of range and <i>elt</i> is not NULL (<i>i</i> must be positive).
UniqAppendElt	void	(ARPTR_ELt <i>elt</i>);	Appends <i>elt</i> to the ARPTR if <i>elt</i> is not already in the ARPTR.

NDArRec:: Class

Function	Returns	Arguments	Description
AppendElt	void	(ARREC_ELTPtr <i>elt</i>);	Adds elt at the end of the ARREC.
ContainsElt	BoolEnum	(ARREC_ELTPtr <i>elt</i>);	Returns whether or not the ARREC contains elt.
ExtractElt	void	(ARREC_ELTPtr <i>elt</i>);	Same as corresponding ARREC_Remove calls but preserve the relative ordering of the elements in the ARREC.
ExtractNthElt	void	(ArrayIVal <i>i</i>);	Removes the element at index I.
FindElt	ArrayIVal	(ARREC_ELTCPtr <i>elt</i>);	Same as ARREC_Lookup routine but signal a failure if elt.
GetLen	ArrayIVal	(void);	Returns the number of elements in the ARREC.
GetNthElt	ARREC_EL T	(ArrayIVal <i>i</i>);	Returns the address of the element at index I.
InsertNthElt	void	(ArrayIVal <i>i</i> , ARREC_ELTPtr <i>elt</i>);	Inserts elt at index I.
IsEmpty	BoolEnum	(void);	Returns whether the ARREC is empty or not.
IsInRange	BoolEnum	(ArrayIVal <i>i</i>);	Returns whether i is a valid index for the ARREC (in the [0, len-1] range, where len is the length of the ARREC).
IsSorted	BoolEnum	(CmpProc <i>proc</i>);	
LookupElt	ArrayIVal	(ARREC_ELTCPtr <i>elt</i>)	Returns the index of the first occurrence of elt in the ARREC.
RemoveDupls	void	(void);	Removes duplicate elements in the ARREC.
RemoveElt	void	(ARREC_ELTPtr <i>elt</i>);	Removes the first occurrence of elt in the ARREC.
RemoveNthElt	void	(ArrayIVal <i>i</i>);	Removes the element at index I.
Reset	void	(void);	Resets the contents of the ARREC.
SetAlloc	void	(ArrayIVal <i>alloc</i>);	Reallocates the contents of the ARREC for alloc elements if necessary but does not change the number of elements in the ARREC.

Function	Returns	Arguments	Description
SetLen	void	(ArrayIVal <i>len</i>);	Sets the number of elements of the ARREC to <i>len</i> and reallocates the contents of the ARREC if necessary.
SetNthElt	void	(ArrayIVal <i>i</i> , ARREC_ELTPtr <i>elt</i>);	Sets the element at index <i>i</i> .
Sort	void	(CmpProc <i>proc</i>);	Sorts the ARREC by passing the address of the elements instead of the elements themselves to the comparison routine.
SortedExtractElt	ArrayIVal	(CmpProc <i>proc</i> , ARREC_ELTPtr <i>elt</i>);	Extracts <i>elt</i> , using <i>proc</i> to compare elements of the ARREC
SortedFindElt	ArrayIVal	(CmpProc <i>proc</i> , ARREC_KEY <i>key</i>);	Searches element which matches <i>key</i> in the ARREC.
SortedInsertElt	ArrayIVal	(CmpProc <i>proc</i> , ARREC_ELTPtr <i>elt</i>);	Insert <i>elt</i> , using <i>proc</i> to compare addresses of the ARREC elements
SortedLookupElt	BoolEnum	(CmpProc <i>proc</i> , ARREC_KEY <i>key</i> , ArrayIValPtr <i>result</i>);	Searches element which matches <i>key</i> in the ARREC. t
SortedRemoveDupls	void	(void);	Removes duplicates in the ARREC, assumes that it is sorted
SortedUniqInsertElt	ArrayIVal	(CmpProc <i>proc</i> , ARREC_ELTPtr <i>elt</i>);	Same as Sorted calls but do not insert if the element is already in the ARREC
UniqAppendElt	void	(ARREC_ELTPtr <i>elt</i>);	Appends <i>elt</i> to the ARREC if <i>elt</i> is not already in the ARREC.

NDBBuf:: Class

Function	Returns	Arguments	Description
CurPos	BBufOffsetVal	(void);	Returns current position.
Flush	void	(void);	Calls the FlushProc method.
GetClientData	ClientPtr	(void);	Respectively, returns user-defined data set by BBUF_SetClientData and sets the ClientData.
GetCurPtr	BBufBytePtr	(void);	Returns a pointer to the byte at current position, and modifies the pointer to the byte at current position.
GetEndianity	EndianEnum	(void);	Returns the real order of bytes in integers.
GetPageBeginPos	BBufOffsetVal	(void);	Returns the offset to the first byte in current page
GetPageBeginPtr	BBufBytePtr	(void);	Returns a pointer to the first byte of current page
GetPageEndPtr	BBufBytePtr	(void);	Returns a pointer to the first byte after current page, and sets the pointer to the first byte after current page.
GetPagingData	ClientPtr	(void);	Returns PagingData.
GetTotalSize	BBufOffsetVal	(void);	Returns the total size of data
IsPageModified	BoolEnum	(void);	Respectively, returns BOOL_TRUE if current page has been modified, BOOL_FALSE otherwise, and sets/unsets the PageModified flag.
LoadCurPage	void	(void);	Loads the current page (if needed); .
NDBBuf	void	(BBufBytePtr <i>data</i> , BBufOffsetVal <i>len</i> , EndianEnum <i>endianity</i>);	Constructs the bbuf to point to data.
QueryMethods	void	(BBufMethodsPtr <i>methods</i>);	Fills methods with the methods installed in the bbuf.
ReadInt8	void	(Int8Ptr <i>valptr</i>);	Reads an Int8 and writes it into valptr.
ReadInt16	void	(Int16Ptr <i>valptr</i>);	Reads an Int16 and writes it into valptr.
ReadInt32	void	(Int32Ptr <i>valptr</i>);	Reads an Int32 and writes it into valptr.
ReadNBytes	void	(HugeBytePtr <i>ptr</i> , BBufOffsetVal <i>len</i>);	Reads len bytes from bbuf and puts the result into to ptr..
ReadUInt8	void	(UInt8Ptr <i>valptr</i>);	Reads an UInt8 and writes it into valptr.

Function	Returns	Arguments	Description
ReadUInt16	void	(UInt16Ptr <i>valptr</i>);	Reads an UInt16 and writes it into <i>valptr</i> .
ReadUInt32	void	(UInt32Ptr <i>valptr</i>);	Reads an UInt32 and writes it into <i>valptr</i> .
SeekBy	void	(BBufOffsetVal <i>pos</i>);	Sets position to offset relative to current position.
SeekTo	void	(BBufOffsetVal <i>pos</i>);	Sets position to absolute offset.
SetClientData	void	(ClientPtr <i>data</i>);	Sets the ClientData.
SetCurPtr	void	(BButBytePtr <i>cur</i>);	Modifies the pointer to the byte at current position.
SetEndianness	void	(EndianEnum <i>endian</i>);	Sets the real order of bytes in integers for the bbuf.
SetMethods	void	(BBufMethodsPtr <i>methods</i>);	Installs the methods in methods in the bbuf.
SetPageBeginPos	void	(BBufOffsetVal <i>pos</i>);	Sets the offset to the first byte in current page.
SetPageBeginPtr	void	(BBufBytePtr <i>pageBeg</i>);	Respectively, returns a pointer to the first byte of current page, and sets the pointer to the first byte of current page.
SetPageEndPtr	void	(BBufBytePtr <i>pageEnd</i>);	Returns a pointer to the first byte after current page.
SetPageModified	void	(BoolEnum <i>mod</i>);	Sets/unsets the PageModified flag.
SetPagingData	void	(ClientPtr <i>data</i>);	Modifies PagingData.
SetTotalSize	void	(BBufOffsetVal <i>len</i>);	Sets the total size of data for the bbuf.
SkipRead	void	(BBufOffsetVal <i>pos</i>);	Skips <n> bytes from current position.
SkipWrite	void	(BBufOffsetVal <i>pos</i>);	Skips <n> bytes from current position. I
WriteInt8	void	(Int8 <i>val</i>);	Writes an Int8 respectively into the bbuf.
WriteInt16	void	(Int16 <i>val</i>);	Writes an Int16 into the bbuf.
WriteInt32	void	(Int32 <i>val</i>);	Writes an Int32 into the bbuf.
WriteNBytes	void	(HugeByteCPtr <i>ptr</i> , BBufOffsetVal <i>len</i>);	Writes <i>len</i> bytes of <i>ptr</i> to the bbuf.
WriteUInt8	void	(UInt8 <i>val</i>);	Writes an UInt8 into the bbuf.
WriteUInt16	void	(UInt16 <i>val</i>);	Writes an UInt8 respectively into the bbuf.
WriteUInt32	void	(UInt32 <i>val</i>);	Writes an UInt16 into the bbuf.

NDChar:: Class

Function	Returns	Arguments	Description
AsciiAlphaGetBase	Int	(Char <i>digit</i>);	Returns the base value of an ASCII letter.
AsciiDigitGetInt	Int	(Char <i>digit</i>);	Returns the integer value of an ASCII digit.
AsciiGetControl	Char	(Char <i>digit</i>);	Converts a character to a control character.
AsciiGetEbcDic	Byte	(Byte <i>byte</i>);	Converts an ASCII character to an EBCDIC character.
AsciiGetGraph	Char	(Char <i>controlchar</i>);	Converts a control character into a character.
AsciiGetLower	Char	(Char <i>digit</i>);	Converts an ASCII character to lower case.
AsciiGetUpper	Char	(Char <i>digit</i>);	Converts an ASCII character to upper case.
AsciiHexDigitGetInt	Int	(Char <i>digit</i>);	Returns the integer value of an ASCII digit.
AsciiIsAlNum	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsAlpha	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsControl	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsDigit	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII
AsciiIsGraph	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsHexDigit	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsLower	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsOctDigit	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.
AsciiIsPrint	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII
AsciiIsPunct	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII.

AsciiIsSpace	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII
AsciiIsUpper	BoolEnum	(Char <i>char</i>);	Same as NDChar::IsAscii... macros except that an error is generated if the character is not ASCII
AsciiOctDigitGetInt	Int	(Char <i>digit</i>);	Returns the integer value of an ASCII digit.
CodeGetLen	StrIVa	(ChCode <i>chcode</i>);	Returns the length of the character whose first byte contains the specified -bit code.
FromAscii	Char	(Byte <i>byte</i>);	Converts an ASCII code to a native character.
EbcDicGetAscii	Byte	(Byte <i>byte</i>);	Converts an EBCDIC character to an ASCII character.
GetByte	Char	(ChCode <i>chcode</i> , Int <i>byte-num</i>);	Returns the contents the specified byte of a multibyte character
GetLen	StrIVa	(Char <i>char</i>);	Returns the length of the character whose first byte contains the specified bit character.
IsAscii	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to the ASCII set..
IsAsciiAlNum	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a letter or a digit.
IsAsciiAlpha	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a letter.
IsAsciiControl	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to an ASCII control character.
IsAsciiDigit	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a digit.
IsAsciiGraph	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a graph character.
IsAsciiHexDigit	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a hexadecimal digit.
IsAsciiLower	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a lower case letter.
IsAsciiOctDigit	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to an octal digit.
IsAsciiPrint	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to a printable character.
IsAsciiPunct	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to an ASCII punctuation.
IsAsciiSpace	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to an ASCII octal space.
IsAsciiUpper	BoolEnum	(ChCode <i>chcode</i>);	Determines whether the character corresponds to an upper case character..

Class tables

NatGetByte	NatChar	(NatCode <i>natcode</i> , Int <i>byte-num</i>);	Returns the contents the specified byte of a multibyte character.
NatGetByte	NatChar	(NatCode <i>natcode</i>);	Returns the contents the specified byte of a multibyte character.
NatGetByte	NatChar	(NatCode <i>natcode</i>);	Returns the contents the specified byte of a multibyte character.
NatGetByte	NatChar	(NatCode <i>natcode</i>);	Returns the contents the specified byte of a multibyte character.
NatGetLen	StrIVal	(NatChar <i>natchar</i>);	Returns the length of the native character whose first byte contains the specified -bit character code.
ToAscii	Byte	(Char <i>char</i>);	Converts a native character to ASCII.

NDCs:: Class

Function	Returns	Arguments	Description
Construct	void	(void);	Default code set object constructor.
ConstructId	void	(CsIdEnum <i>csid</i>);	Constructs the code set object from the 'csid' information.
CvtChar	BoolEnum	(CsCode <i>in</i> , CharCvtSet <i>flags</i> , LgEnvCPtr <i>lgenv</i> , CsCodePtr <i>out</i>);	Convert the character in 'in' described in 'flags' and set the result to 'out'. 'lgenv' specifies a language environment.
Destruct	void	(void);	Default code set object destructor.
FromUni	BoolEnum	(CsCode <i>cscode</i> , CsCodePtr <i>uni</i>);	Converts unicode to cscode.
GetCharInfo	CharInfoVal	(CsCode <i>code</i>);	Get the 'charinfo' value of the character 'code'.
GetCharLen	StrIVal	(void);	Get the character length for the code set.
GetCsGlobal	CsPtr	(void);	Returns a pointer to the global code set.
GetCsId	CsIdEnum	(void);	Get the code set's id.
GetCsNative	CsPtr	(void);	Returns a pointer to the native code set.
GetCsUnicode	CsPtr	(void);	Returns a pointer to the Unicode code set.
TransChar	BoolEnum	(CsCode <i>code</i> , CharCvtSet <i>flags</i> , CsCPtr <i>incs</i> , CsCodePtr <i>chcodeptr</i>);	Translates the character of specified code set to the character within this code set.
ToUni	BoolEnum	(CsCode <i>cscode</i> , UniCodePtr <i>uni</i>);	Converts cscode to unicode. If it cannot be converted, returns false; otherwise, sets the unicode to uni and return true.

NDCT:: Class

Function	Returns	Arguments	Function
CvtChar	BoolEnum	(ChCode <i>chcode</i> , CharCvtSet <i>flag</i> , LgEnvCPtr <i>lgenv</i> , ChCodePtr <i>chcodeptr</i>);	Converts a character and sets the result.
CvtCsToCt	ChCode	(CsCode <i>cscode</i> , CsCPtr <i>codesetptr</i>);	Converts a character code from its code set form to its code type form.
CvtCtToCs	CsCode	(ChCode <i>chcode</i> , CsPtr* <i>codesetptr</i>);	Converts a character code from its code type form to its code set form.
FromUni	BoolEnum	(UniCode <i>uni</i> , ChCodePtr <i>ch</i>);	Converts unicode to chcode.
GetBwrld	ChCode	(CStr <i>str</i> , StrIVal <i>index</i> , StrIValPtr <i>*lenptr</i>);	Returns the character code for the character found in front of a given index in a string.
GetCharLen	StrIVal	(Char <i>char</i>);	Returns the length of a global character of a specified code type.
GetCtId	CtIdEnum	(void);	Returns the code type id from the code type data record structure.
GetFwrld	ChCode	(CStr <i>str</i> , StrIValPtr <i>lenptr</i>);	Returns the value of the character found at the beginning of a string.
GetInfo	CharInfoVal	(ChCode <i>chcode</i>);	Returns the CharInfoVal for a character.
GetLower	ChCode	(ChCode <i>chcode</i>);	Returns the lower case form of a character.
GetMaxCharLen	StrIVal	(void);	Returns the maximum character length supported by a code type.
GetUpper	ChCode	(ChCode <i>chcode</i>);	Returns the upper case form of a character.
IsSingleOnly	BoolEnum	(void);	Determines whether a code type defines single-byte characters only.
ToUni	BoolEnum	(ChCode <i>ch</i> , UniCodePtr <i>uni</i>);	Converts chcode to uni-code.

NDDs:: Class

Function	Returns	Arguments	Description
AddContDs	void	(DsPtr <i>contDs</i>);	Adds contDs as a contained data source to the data source.
Class	RClasPtr	(void);	Returns a pointer to the DataSource Class.
GetViewOption	CStr	(ResCPtr <i>view</i> , CStr <i>option</i>);	Returns the string corresponding to option for the view registered with the data source.
RegisterView	void	(ResPtr <i>view</i>);	Register the resource view with the data source.
RemoveContDs	void	(DsPtr <i>contDs</i>);	Removes contDs from the data source.
SetViewOption	void	(ResPtr <i>view</i> , CStr <i>option</i> , CStr <i>info</i>);	Set info as the option for the view registered in the data source.
StartEdit	DsEditPtr	(void);	Opens an edition on the whole data source.
StartUpdateEdit	DsUpdateEditPtr	(void);	Opens an update on the whole data source.
UnregisterView	void	(ResPtr <i>view</i>);	Unregisters view from the data source.
ViewGetDs	DsPtr	(ResPtr <i>view</i>);	Returns the data source, if any, associated to the view.

NDDsEdit:: Class

Function	Returns	Arguments	Description
Abort	void	(void);	Abort the edition on the data source.
AddOperation	void	(void);	Add an operation to the edition
End	DsEditCompletionEnum	(void);	Commit the edition on the whole of the data source.
GetOwner	ResPtr	(void);	Retrieve owner (if any) of the edition
SetOwner	void	(ResPtr <i>owner</i>);	Set owner of the edition.

NDDsUpdateEdit:: Class

Function	Returns	Arguments	Description
Abort	void	(void);	Abort the update on the data source.
End	void	(void);	Commit the update on the whole of the data source.

NDFile:: Class

Function	Returns	Arguments	Description
Backup	void	(void);	Creates a backup of the fileobj. The file must not be open at the time of the call.
Close	void	(void);	Close a file.
CreateOpen	void	(FMgrCreateFileCPtr <i>createptr</i> , FileFmtEnum <i>format</i>);	Creates a new file and opens it in the given format.
CurBinaryOffset	FileOffsetVal	(void);	Return the current position offset in a binary file.
CurLineNumber	FileLineNb-Val	(void);	Return the current line number in a file.
CurSize	FileOffsetVal	(void);	Return the current size of a file.
CurTextOffset	FileOffsetVal	(void);	Return the current position offset in a text file.
Find	BoolEnum	(void);	Searches for a file specified by its spec name.
Flush	void	(void);	Flushes file output buffer.
GetAutoBackup	BoolEnum	(void);	Get the value of a file object's auto backup flag.
GetClientData	ClientPtr	(void);	Gets the client data attached to a file object.
GetDefSearchPath	CStr	(void);	Set the default search path used by NDFile::Open.
GetDefSearchPathName	CStr	(void);	Get the name of the environment variable containing the default search path.
GetError	FileErrEnum	(void);	Return the last error generated.
GetFailIfNotFound	BoolEnum	(void);	Get the value of a file structure's FailIfNotFound flag.
GetFailOnEof	BoolEnum N	(void);	Get the value of a file structure's FailOnEOF flag.
GetNodeType	FMgrNodeEnum	(void);	Determines the type of a node.

GetOpenFormat	FileFmtEnum	(void);	Determines the file format and I/O mode in which a file is open.
GetOpenMode	FileFmtEnum	(void);	Determines the I/O mode in which a file has been opened.
GetRealName	CStr	(void);	Get the file name used by Open.
GetSearchPath	CStr	(void);	Get the search path used by Open.
GetSpecName	CStr	(void);	Get the file name used by Open.
GotoBeg	void	(void);	Seek to the beginning of a file.
GotoEnd	void	(void);	Seek to the end of a file.
IsAtEnd	BoolEnum	(void);	Return whether the current position is the end of the file.
IsOpen	BoolEnum	(void);	Determine if a file is open, and in which modes it is open.
IsOpenBinary	BoolEnum	(void);	Determine if a file is open, and in which modes it is open.
IsOpenLine	BoolEnum	(void);	Determine if a file is open, and in which modes it is open.
IsOpenRead	BoolEnum	(void);	Determine if a file is open, and in which modes it is open.
IsOpenText	BoolEnum	(void);	Determine if a file is open, and in which modes it is open.
IsOpenWrite	BoolEnum	(void);	Determine if a file is open, and in which modes it is open.
IsReadable	BoolEnum	(void);	Determines whether the given file has read access.
IsWritable	BoolEnum	(void);	Determines whether the given file has write access.
Open	void	(FileIOEnum <i>iomode</i> , FileFmtEnum <i>format</i>);	Open a file with the specified I/O mode and format.

QueryLinePos	void	(FileLinePosPtr <i>posptr</i>);	Query the current position for a file opened in line format.
QueryNatRef	void	(FileNatRefPtr <i>nat</i>);	Attaches a different native file to an existing file. It does not close the old native file.
QueryTextPos	void	(FileTextPosPtr <i>posptr</i>);	Query the current position structure for a text file.
ReadByte	Int	(void);	Return the next byte in a binary file.
ReadChar	Int	(void);	Return the next character in a text file.
ReadLine	CStr	(void);	Read one line of text from a line format file.
ReadNBytes	FileOffsetVal	(VoidPtr <i>buffer</i> , FileOffsetVal <i>n</i>);	Read a number of bytes from a binary file.
ReadNChars	FileOffsetVal	(Str <i>buffer</i> , FileOffsetVal <i>n</i>);	Read and return a string of characters from a text file.
ReadStr	CStr	(void);	Read and return a string of characters from a text file.
ReadTextLine	CStr	(void);	Read and return a line of characters from a text file.
SeekBinaryBy	void	(FileOffsetVal <i>position</i>);	Set the file position relative to the current position for a binary file.
SeekBinaryTo	void	(FileOffsetVal <i>position</i>);	Set the current absolute position in a binary file.
SetAutoBackup	void	(BoolEnum <i>flag</i>);	Set the value of a file object's auto backup flag.
SetClientData	void	(ClientPtr <i>data</i>);	Sets the client data attached to a file object.
SetDefSearchPath	void	(CStr <i>path</i>);	Set the default search path used by ND-File::Open.
SetDefSearchPathName	void	(CStr <i>path</i>);	Get the name of the environment variable containing the default search path.
SetError	void	(FileErrEnum <i>fileerr</i>);	Set the error for a file.

SetFailIfNotFound	void		Set the value of a file structure's FailIfNotFound flag.
SetFailOnEof	void		Set the value of a file structure's FailOnEOF flag.
SetLinePos	void	(FileLinePosCPtr <i>posptr</i>);	Set the current position in a file opened in line format.
SetNatRef	void	(FileNatRefCPtr <i>nat</i>);	Attaches a different native file to an existing file. It does not close the old native file.
SetSearchPath	void	(CStr <i>path</i>);	Set the search path used by NDFile::Open.
SetSpecName	void	(CStr <i>specname</i>);	Set the file name used by NDFile::Open.
SetTextPos	void	(FileTextCPosPtr <i>posptr</i>);	Set the current position in a text file.
Truncate	void	(void);	Truncate a file at the current position.
TryClose	BoolEnum	(void);	Non-asserting version of the file close function.
TryCreateOpen	BoolEnum	(FMgrCreateFileCPtr <i>createptr</i> , FileFmtEnum <i>format</i>);	Non-asserting version of the file create function.
TryOpen	BoolEnum	(FileIOEnum <i>iomode</i> , FileFmtEnum <i>format</i>);	Non-asserting version of the file open function.
WriteByte	void	(Int <i>byte</i>);	Writes a byte to a binary file.
WriteChar	void	(Int <i>char</i>);	Writes a character to a text file.
WriteLine	void	(CStr <i>string</i>);	Write a string and line terminator to a text file.
WriteNBytes	void	(VoidCPtr <i>buffer</i> , FileOffsetVal <i>n</i>);	Writes a number of bytes to a binary file.
WriteNChars	void	(CStr <i>buffer</i> , FileOffsetVal <i>n</i>);	Writes a number of characters to a text file.
WriteStr	void	(CStr <i>string</i>);	Write a null terminated string to a text file.
WriteTextLine	void	(CStr <i>string</i>);	Write a string and line terminator to a text file.

NDFMgr::Class

Function	Returns	Arguments	Description
AddFileType	void	(FMgrFileTypeCPtr <i>fmgrfile-type</i>);	Adds a file type.
AllFilesWildcard	CStr	(void);	Return wildcard pattern that matches all the files in a directory.
CheckDir	BoolEnum	(CStr <i>name</i>);	Checks the type of a node without performing I/O operations on VMS.
CheckFile	BoolEnum	(CStr <i>name</i>);	Checks the type of a node without performing I/O operations on VMS.
CopyDir	void	(CStr <i>original</i> , CStr <i>copy</i>);	Copy a directory and all of its content.
CopyFile	void	(CStr <i>original</i> , CStr <i>copy</i>);	Copy a file.
CopyNode	void	(CStr <i>original</i> , CStr <i>copy</i>);	Copy a node
CreateDir	void	(CStr <i>name</i> , FMgrCreateDirCPtr <i>access</i>);	Create a directory with the specified permission rights.
CreateFile	void	(CStr <i>name</i> , FMgrCreateFileCPtr <i>access</i>);	Creates a file called <i>name</i> with the specified permission rights and Macintosh signatures.
DeleteDir	void	(CStr <i>name</i>);	Delete a directory and all its content.
DeleteDirContent	void	(CStr <i>name</i>);	Delete the contents of a directory.
DeleteFile	void	(CStr <i>name</i>);	Delete a file
DeleteNode	void	(CStr <i>name</i>);	Delete a node
DirWildcard	CStr	(void);	Return wildcard pattern that matches only directories.
Exists	BoolEnum	(CStr <i>name</i>);	Determines whether the specified node exists.
FindFileTypeId	FMgrFileTypeEnum	(CStr <i>name</i>);	Returns the FileTypeId for the given file.
FindFileTypeInfo	FMgrFileTypeCPtr	(CStr <i>name</i>);	Same as FindFileTypeId but returns the full type description instead of just the FileTypeId.
GetMacCreator	FMgrMacIdVal	(CStr <i>name</i>);	Returns the Macintosh signatures of a file.
GetMacType	FMgrMacIdVal	(CStr <i>name</i>);	Returns the Macintosh signatures of a file.
GetNodeType	FMgrNodeEnum	(CStr <i>name</i>);	Determines the type of the specified node.
GetNthFileType	FMgrFileTypeCPtr	(ArrayIVal <i>n</i>);	Returns the <i>n</i> th register file type description.
GetNumFileTypes	ArrayIVal	(void);	Returns the number of registered file types.

IsDevConcealed	BoolEnum	(CStr <i>name</i>);	Checks whether a concealed device is present for the file or directory passed.
IsDir	BoolEnum	(CStr <i>name</i>);	Macros for checking the type of a node.
IsExecutable	BoolEnum	(CStr <i>name</i>);	Functions for checking the access permissions of a node.
IsFile	BoolEnum	(CStr <i>name</i>);	Macros for checking the type of a node.
IsReadable	BoolEnum	(CStr <i>name</i>);	Functions for checking the access permissions of a node.
IsVolume	BoolEnum	(CStr <i>name</i>);	Macros for checking the type of a node.
IsWritable	BoolEnum	(CStr <i>name</i>);	Functions for checking the access permissions of a node.
MoveDir	void	(CStr <i>original</i> , CStr <i>move</i>);	Rename and/or move a directory
MoveFile	void	(CStr <i>original</i> , CStr <i>move</i>);	Rename and/or move a file.
MoveNode	void	(CStr <i>original</i> , CStr <i>move</i>);	Rename and/or move a node.
PerfDirFiles	PerfEnum	(CStr <i>dir</i> , CStr <i>pattern</i> , FMgrPerfFileProc <i>funcClientPtr data</i>);	Performs an action on all the entries of a directory <i>dir</i> which match a given <i>pattern</i> .
PerfVolumes	void	(FMgrPerfVolProc <i>func</i> , ClientPtr <i>data</i>);	Call a user function for each volume in the system.
PurgeDir	void	(CStr <i>dir</i> , CStr <i>pattern</i>);	Purge specified files from a directory.
QueryNodeInfo	BoolEnum	(CStr <i>name</i> , FMgrNodePtr <i>info</i>);	Queries all the information for a node.
RemoveFileType	void	(FMgrFileTypeCPtr <i>fmgrfile-type</i>);	Removes a file type.
TryCopyDir	BoolEnum	(CStr <i>original</i> , CStr <i>copy</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryCopyFile	BoolEnum	(CStr <i>original</i> , CStr <i>copy</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryCopyNode	BoolEnum	(CStr <i>original</i> , CStr <i>copy</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryCreateDir	BoolEnum	(CStr <i>name</i> , FMgrCreateDirCPtr <i>access</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryCreateFile	BoolEnum	(CStr <i>original</i> , FMgrCreateFile <i>copy</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryDeleteDirContent	BoolEnum	(CStr <i>name</i> , FMgrCreateDirCPtr <i>access</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryDeleteDir	BoolEnum	(CStr <i>name</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryDeleteFile	BoolEnum	(CStr <i>name</i>);	Non-asserting versions of the copy, create, delete, and move functions.
TryDeleteNode	BoolEnum	(CStr <i>name</i>);	Non-asserting versions of the copy, create, delete, and move functions.

TryMoveDir	BoolEnum	(CStr <i>original</i> , CStr move);	Non-asserting versions of the copy, create, delete, and move functions.
TryMoveFile	BoolEnum	(CStr <i>original</i> , CStr move);	Non-asserting versions of the copy, create, delete, and move functions.
TryMoveNode	BoolEnum	(CStr <i>original</i> , CStr move);	Non-asserting versions of the copy, create, delete, and move functions.

NDFName:: Class

Function	Returns	Arguments	Description
Cmp	CmpEnum	(CStr <i>name</i> , CStr <i>name</i>);	Compare two file names.
Convert	void	(CStr <i>source</i> , FNameBuf <i>dest</i>);	Determine the syntax of a name and convert it to the current syntax.
ConvertFromTo	void	(CStr <i>source</i> , FNameBuf <i>dest</i> , FNameStxEnum <i>syntax</i>);	Convert a name from one given syntax to another.
ConvertInPlace	void	(FNameBuf <i>name</i>);	Determine the syntax of a name and convert it to the current syntax.
CurDirStr	CStr	(void);	Returns the string representation of the current directory.
CvtDirFileToPath	void	(CStr <i>path</i> , FNameBuf <i>file</i>);	Convert a directory string from path syntax to file syntax.
CvtDirPathToFile	void	(CStr <i>file</i> , FNameBuf <i>path</i>);	Convert a directory string from file syntax to path syntax.
CvtToAbsolute	void	(CStr <i>name</i> , FNameBuf <i>name</i>);	Convert a file name to an absolute file name.
QueryParent Dir	void	(CStr <i>dir</i> , FNameBuf <i>parent</i>);	Returns the string representation of the specified parent directory.
Equal	BoolEnum	(CStr <i>name</i> , CStr <i>name</i>);	Compare two file names.
Evaluate	void	(FNameBuf <i>name</i>);	Replace each variable expression by its value, using the specified syntax.
EvaluateIn	void	(FNameBuf <i>name</i> , FNameStxEnum <i>syntax</i>);	Replace each variable expression by its value, using the current syntax.
FindSyntax	FNameStxEnum	(CStr <i>name</i>);	Returns the most likely syntax for the given name.
GetCompSet	FNameCompSet	(CStr <i>name</i>);	Return the set of components which are present in a file name.
GetCurSyntax	FNameStxEnum	(void);	Determine the current syntax.
GetStatus	FNameStatusEnum	(void);	Get the status of the most recent conversion.

GetSysSyntax	FNameStxE- num	(void);	Determine the syntax of the native system.
GetTmpPath	CStr	(void);	Return the path where temporary file names are created.
HomeDirStr	CStr	(void);	Returns the string representation of the top directory of the system.
IsAbsolute	BoolEnum	CStr <i>name</i>);	Determine if a file name is specified as absolute or as relative.
IsConvertible	BoolEnum	CStr <i>name</i>);	Determine if a name can be completely converted.
IsDirAsFile	BoolEnum	(CStr <i>directory</i>);	Determine if a directory is specified as a directory name or as a file name.
IsPortable	BoolEnum	CStr <i>name</i>);	Determine if a name can be completely converted to all target syntaxes.
IsTopDir	BoolEnum	(CStr <i>name</i>);	Returns whether a directory path name is at the top level.
IsValid	BoolEnum	(CStr <i>name</i>);	Determine whether a file name is valid in the current syntax.
IsValidIn	BoolEnum	(CStr <i>filename</i> , FNameStxEnum <i>syntax</i>);	Determine whether a file name is valid in a given file system syntax.
MakeBackupName	void	(CStr <i>filename</i> , FNameBuf <i>backup-name</i>);	Generate a name for a backup file.
MakeTmpFileName	void	(CStr <i>prefix</i> , FNameBuf <i>buffer</i>);	Generate a temporary file name.
MakeValid	void	(FNameBuf <i>name</i>);	Modify a name to make it valid in the current syntax
MakeValidIn	void	(FNameBuf <i>name</i> , FNameStxE- num <i>syntax</i>);	Modify a name to make it valid in a specified syntax
MergeFile	void	(CStr <i>path</i> , CStr <i>file</i> , FNameBuf <i>name</i>);	Merge a path component and a file component into a full file name.
MergePath	void	(CStr <i>path</i> , CStr <i>subdirectory</i> , FNameBuf <i>name</i>);	Merge a path and a subdirectory into a full path for the subdirectory.
ParentDirStr	CStr	(void);	Returns the string representation of the parent directory.

QueryComps	void	(CStr <i>name</i> , FNameCompSet <i>components</i> , Str <i>str</i>);	Extract specified file name components and copy to a string.
QueryCurDir	void	(FNameBuf <i>dir</i>);	Returns the string representation of the current directory.
QueryCurParams	void	(FNameParamsPtr <i>params</i>);	Determines the current syntax conversion parameters.
QueryCurVolume	void	(FNameBuf <i>volume</i>);	Determines the current volume string.
QueryHomeDir	void	(FNameBuf <i>home</i>);	Determines the home directory of the current user.
QueryParent Dir	void	(FNameBuf <i>parent</i>);	Returns the parent directory of the current directory.
QueryTopDir	void	(FNameBuf <i>topDir</i>);	Determines the current top directory.
ReduceComps	void	(Str <i>name</i> , FNameCompSet <i>components</i>);	Reduce a file name to a specified set of components.
ResetCurParams	void	(void);	Reset the current syntax conversion parameters to the default parameters.
SetCurDir	void	(CStr <i>directory</i>);	Returns the string representation of the current directory.
SetCurParams	void	(FNameParamsCPtr <i>params</i>);	Set the current syntax conversion parameters.
SetCurSyntax	void	(FNameStxEnum <i>syntax</i>);	Set a particular syntax as the current syntax.
SetStatus	void	(FNameStatusEnum <i>status</i>);	Set the status flag to the given value.
SetTmpPath	void	(CStr <i>path</i>);	Change the path where temporary file names will be created.
SplitFile	void	(CStr <i>name</i> , FNameBuf <i>path</i> , FNameBuf <i>file</i>);	Split a file name into path and file components.
SplitPath	BoolEnum	(CStr <i>name</i> , FNameBuf <i>path</i> , FNameBuf <i>subdirectory</i>);	Split a path into parent path and child subdirectory components.
StatusGetMsg	CStr	(FNameStatusEnum <i>status</i>);	Get the text description of the given status value.

StxGetName	CStr	(FNameStxEnum <i>syntax</i>);	Returns the name of the specified syntax.
SysTmpPath	CStr	(void);	Return the native system's default path for temporary files.
TopDirStr	CStr	(void);	Returns the string representation of the top directory of the current volume.
VolumeQueryCurDir	void	(CStr <i>volume</i> , FNameBuf <i>directory</i>);	Query the current directory of a given volume.
VolumeSetCurDir	void	(CStr <i>volume</i> , CStr <i>directory</i>);	Set the current directory of a given volume.

NDHash:: Class

Function	Returns	Arguments	Descriptions
AddGetEntry	HashEntryPtr	(HashKeyVal <i>key</i> , HashDataVal <i>value</i>);	Adds an entry corresponding to 'key' without checking its previous existence.
CompareProc	BoolEnum	(HashKeyVal <i>key1</i> , HashKeyVal <i>key2</i>);	Procedure that compares two entries.
DataCloneProc	HashDataVal	(HashDataVal);	Procedure returning a clone of the data of entry.
DataDisposeProc	void	(HashDataVal);	Procedure used to dispose data stored in the hash table for an entry (created through cloning).
DefCompareInt	BoolEnum	(HashKeyVal <i>key1</i> , HashKeyVal <i>key2</i>);	Returns the result of the default Open Interface comparison of <i>key1</i> and <i>key2</i> .
DefCompareIStr	BoolEnum	(HashKeyVal <i>key1</i> , HashKeyVal <i>key2</i>);	Returns the result of the default Open Interface comparison of <i>key1</i> and <i>key2</i> .
DefComparePtr	BoolEnum	(HashKeyVal <i>key1</i> , HashKeyVal <i>key2</i>);	Returns the result of the default Open Interface comparison of <i>key1</i> and <i>key2</i> .
DefCompareStr	BoolEnum	(HashKeyVal <i>key1</i> , HashKeyVal <i>key2</i>);	Returns the result of the default Open Interface comparison of <i>key1</i> and <i>key2</i> .
DefHashInt	HashLenVal	(HashKeyVal <i>key</i> , HashLenVal <i>mod</i>);	Returns the bin index computed by the default hashing procedure provided by Open Interface.
DefHashIStr	HashLenVal	(HashKeyVal <i>key</i> , HashLenVal <i>mod</i>);	Returns the bin index computed by the default hashing procedure provided by Open Interface.
DefHashPtr	HashLenVal	(HashKeyVal <i>key</i> , HashLenVal <i>mod</i>);	Returns the bin index computed by the default hashing procedure provided by Open Interface.
DefHashStr	HashLenVal	(HashKeyVal <i>key</i> , HashLenVal <i>mod</i>);	Returns the bin index computed by the default hashing procedure provided by Open Interface.

Function	Returns	Arguments	Descriptions
DefStrKeyClone	HashKeyVal	(HashKeyVal <i>key</i>);	Default string cloning
DefStrKeyDispose	void	(HashKeyVal <i>key</i>);	Default string cloning
EntryGetKey	HashKeyVal	(HashEntryCPtr <i>entry</i>);	Returns the key stored in the entry.
EntryGetValue	HashDataVal	(HashEntryCPtr <i>entry</i>);	Returns the value stored in the entry.
EntrySetValue	void	(HashEntryPtr <i>entry</i> , HashDataVal <i>value</i>);	Changes the value stored in the entry.
Extract	BoolEnum	(HashKeyVal <i>key</i> , HashDataValPtr <i>valPtr</i>);	Looks for an entry corresponding to 'key'.
GetDefIntInfo	HashInfoCPtr	(HashInfoPtr <i>hashInfo</i>);	Returns the default settings for a hash table with integer keys.
GetDefIStrInfo	HashInfoCPtr	(void);	Returns the default settings for a hash table with string keys.
GetDefPtrInfo	HashInfoCPtr	(void);	Returns the default settings for a hash table with pointer keys.
GetDefStrInfo	HashInfoCPtr	(void);	Returns the default settings for a hash table with string keys.
GetDefStrKeyCloneInfo	HashInfoCPtr	(void);	Returns the default settings for a hash table with cloned string keys.
GetEntry	HashEntryPtr	(HashKeyVal <i>key</i>);	Returns the pointer to the actual entry corresponding to 'key'. I
Insert	void	(HashKeyVal <i>key</i> , HashDataVal <i>value</i>);	Looks for an entry corresponding to 'key'.
InsertGetEntry	HashEntryPtr	(HashKeyVal <i>key</i> , HashDataVal <i>value</i>);	Same as above but tests whether there was an entry there before or not.
Lookup	BoolEnum	(HashKeyVal <i>key</i> , HashDataValPtr <i>valPtr</i>);	Looks for an entry corresponding to 'key'
Perf	PerfEnum	(HashPerfProc <i>perfProc</i> , ClientPtr <i>data</i>);	Triggers the iteration of 'perfProc' for all the entries in the table.
QueryDefInfo	void	(HashInfoPtr <i>hashInfo</i>);	Fills 'hashInfo' with the default settings for a hash table.
QueryInfo	void	(HashInfoPtr <i>hashInfo</i>);	Fills 'hashInfo' with the values that were used to define the hash table.

Function	Returns	Arguments	Descriptions
QueryStats	void	(HashStatsInfoPtr <i>stats</i>);	Fills 'stats' with the statistical information corresponding to hash.
RemoveEntry	void	(HashEntryPtr <i>entry</i>);	Removes the entry from the hash table.
Reset	void	(void);	Resets the contents of the hash table to the defaults as when created.

NDHeap:: Class

Function	Returns	Arguments	Description
Add	void	(HeapKeyVal <i>key</i> , ClientPtr <i>client</i>);	Insertion with no reorder: the heap structure is temporarily incorrect, a call to HEAP_Correct will be necessary before the heap can actually be used.
Correct	void	(void);	The structure of the key is corrected.
GetSize	HeapIndexVal	(void);	Returns the number of entries in the heap.
Insert	void	(HeapKeyVal <i>key</i> , ClientPtr <i>client</i>);	Insertion with reorder.
Perf	PerfEnum	(HeapPerfProc <i>proc</i> , ClientPtr <i>clientData</i>);	Performs `proc' on each entry of the heap. `proc' gets called with `clientData' as last argument.
QueryFirst	BoolEnum	(BoolEnum <i>extract</i> , HeapKeyValPtr <i>keyPtr</i> , ClientPtrPtr <i>dataPtr</i>);	Extraction of the top-most entry: if it can find one, it returns BOOL_TRUE and sets `keyPtr' and `dataPtr'; if not it returns BOOL_FALSE.

NDISet:: Class

Function	Returns	Arguments	Description
AddIntervals	void	(ISetLenVal <i>n</i> , ISetIntervalPtr <i>intervals</i>);	Same as ISET_AddInterval but for 'n' intervals.
ContainsElt	BoolEnum	(ISetEltVal <i>elt</i>);	Returns BOOL_TRUE if the set contains 'elt'.
ContainsIntervals	BoolEnum	(ISetLenVal <i>numIntervals</i> , ISetIntervalPtr <i>intervals</i>);	Same as ISET_ContainsInterval but for 'n' intervals.
GetMaxElt	ISetEltVal	(void);	Returns the biggest element in the set.
GetMinElt	ISetEltVal	(void);	Returns the smallest element in the set.
GetNumIntervals	ISetLenVal	(void);	Returns the number of intervals in the set.
IsAll	BoolEnum	(void);	Returns BOOL_TRUE if the set contains all possible elements, i.e. is the interval [ISET_ELTVALLINF, ISET_ELTVALLSUP].
MixGetPartSet	ISetMix-PartSet	(ISetPtr <i>A</i> , ISetPtr <i>B</i>);	Same as the equivalent calls in the Set package, but for ISet objects.
MixQueryParts	void	(ISetPtr <i>A</i> , ISetPtr <i>B</i> , ISetMixPartSet <i>part</i> , ISetPtr <i>C</i>);	Same as the equivalent calls in the Set package, but for ISet objects.
QueryComplement	void	(ISetPtr <i>compl</i>);	Computes the complement of 'iset' and puts the result into 'compl'.
QueryIntervals	void	(ISetLenVal <i>numIntervals</i> , ISetIntervalPtr <i>intervals</i>);	Fills intervals with the intervals in the iset.
RemoveIntervals	void	(ISetLenVal <i>numIntervals</i> , ISetIntervalPtr <i>intervals</i>);	Same as ISET_RemoveInterval but for 'n' intervals.
SetIntervals	void	(ISetLenVal <i>numIntervals</i> , ISetIntervalPtr <i>intervals</i>);	Defines the intervals in the iset to be those specified by intervals.
Universal Set	ISetPtr	(void);	Returns a pointer to a shared "universal" set (i.e. a set which contains all possible values).

NDNfier:: Class

Function	Returns	Arguments	Description
~NDNfier	void	(void);	Default notifier destruction.
~NDNfierClient	void	(void);	Default notifier client destruction.
Broadcast	void	(ClientPtr <i>clientData</i>);	Broadcasts a notification ('clientData' contains the notification information) to all the clients which have registered.
ClientGetClientData	ClientPtr	(void);	Retrieves the client data previously associated with 'nfierClient'.
ClientSetClientData	void	(ClientPtr <i>clientData</i>);	Associates 'clientData' with 'nfierClient'.
NDNfierClient	void	(void);	Default notifier construction.
NDNfier	void	(void);	Default notifier client construction.
RegisterNfierClient	void	(NfierClientPtr <i>client</i>);	Adds a notifier client to the list of clients of a given notifier.
UnregisterNfierClient	void	(NfierClientPtr <i>client</i>);	Removes a notifier client from the list of clients of a notifier.

NDPack:: Class

Function	Returns	Arguments	Description
CcittDecode	void	(PackSizeVal <i>width</i> , PackCcittFlags <i>ccittFlags</i>);	Decodes using the CCITT compression mechanisms.
CcittEncode	void	(PackSizeVal <i>width</i> , PackCcittFlags <i>ccittFlags</i>);	Encodes using the CCITT compression mechanisms.
Decode	void	(PackMethodEnum <i>method</i>);	Decodes with the method specified by `method'.
Encode	void	(PackMethodEnum <i>method</i>);	Encodes with the method specified by `method'.
LzwDecode	void	(PackDepthVal <i>depth</i> , PackLzwFlags <i>flags</i>);	Decodes with LZW.
LzwEncode	void	(PackDepthVal <i>depth</i> , PackLzwFlags <i>flags</i>);	Encodes with LZW.
PkbDecode	void	(void);	Decodes with PackBits.
PkbEncode	void	(void);	Encodes with PackBits.
RleDecode	void	(void);	Decodes with RLE algorithm.
RleEncode	void	(void);	Encodes with RLE algorithm.

NDPool:: Class

Function	Returns	Arguments	Description
DisposePtr	void	(HugePtr <i>ptr</i>);	Deallocates ptr. ptr must have been allocated in the pool
NDPool	void	(void);	Default memory pool construction.
NewPtr	HugePtr	(void);	Returns a pointer to a cell allocated in the pool.
QueryInfo	void	(PoolInfoPtr <i>poolInfo</i>);	Fills poolInfo with the information with which the memory pool was created.
QueryStats	void	(PoolStatsInfoPtr <i>stats</i>);	Fills stats with the statistics information on the pool.
ResetStats	void	(PoolStatsInfoPtr <i>stats</i>);	Resets stats.
SetInfo	void	(PoolInfoCPtr <i>poolInfo</i>);	Updates the memory pool with the information from poolInfo.

NDPtr:: Class

Function	Returns	Arguments	Description
AlignCheck	void	(HugeCPtr <i>ptr</i>);	Checks whether the pointer is aligned for the worst case scenario.
Clear	void	(VoidPtr <i>ptr</i> , PtrSizeVal <i>number</i>);	Sets the set of bytes specified in a buffer to zero.
Cmp	CmpEnum	(VoidCPtr <i>p1</i> , VoidCPtr <i>p2</i> , PtrSizeVal <i>size</i>);	Compares the `size' first bytes of `p1' and `p2'. The bytes are compared as their unsigned values bytes.
Copy	void	(VoidPtr <i>dest</i> , VoidCPtr <i>src</i> , PtrSizeVal <i>number</i>);	Copies the number of bytes specified to a disjoint location in a buffer.
CopyByte	void	(VoidPtr <i>dst</i> , PtrSizeVal <i>dstOffset</i> , VoidCPtr <i>src</i> , PtrSizeVal <i>srcOffset</i>);	Copies value stored at `src'+`srcOffset' to dst+`dstOffset'.
DefFailProc	HugePtr	(PtrFailEnum <i>fail</i> , PtrHugeSizeVal <i>size</i>);	Default method to trap memory management failures.
Dispose	void	(void);	Frees memory allocated for a given pointer.
GetAlignedSize	PtrSizeVal	(PtrSizeVal <i>size</i>);	Returns the smallest aligned size for the size passed.
GetByte	Byte	(VoidCPtr <i>ptr</i> , PtrSizeVal <i>offset</i>);	Reads value stored at address ptr+`offset'.
GetFailProc	PtrFailProc	(void);	Returns the custom failure callback procedure installed.
GetSize	PtrSizeVal	(void);	Returns the size of which the buffer `ptr' is allocated.
HugeClear	void	(HugePtr <i>hugeptr</i> , PtrHugeSizeVal <i>number</i>);	Sets the set of bytes specified in a buffer to zero.
HugeCmp	CmpEnum	(HugeCPtr <i>p1</i> , HugeCPtr <i>p2</i> , PtrHugeSizeVal <i>size</i>);	Compares the `size' first bytes of `p1' and `p2'. The bytes are compared as their unsigned values bytes.
HugeCopy	void	(HugePtr <i>dest</i> , HugeCPtr <i>src</i> , PtrHugeSizeVal <i>number</i>);	Copies the number of bytes specified to a disjoint location in a buffer.
HugeCopyByte	void	(HugePtr <i>dst</i> , PtrHugeSizeVal <i>dstOffset</i> , HugeCPtr <i>src</i> , PtrHugeSizeVal <i>srcOffset</i>);	Copies value stored at `src'+`srcOffset' to dst+`dstOffset'.
HugeDispose	void	(HugePtr <i>hugeptr</i>);	Frees memory allocated for a given pointer.
HugeGetByte	Byte	(HugeCPtr <i>ptr</i> , PtrHugeSizeVal <i>offset</i>);	Reads value stored at address ptr+`offset'.
HugeGetSize	PtrHugeSizeVal	(HugePtr <i>ptr</i>);	Same as before except that the sizes can be larger than HUGELIMIT.
HugeMatches	BoolEnum	(HugeCPtr <i>p1</i> , HugeCPtr <i>p2</i> , PtrHugeSizeVal <i>size</i>);	Returns whether `p1' and `p2' match exactly on their first `size'.

Function	Returns	Arguments	Description
HugeMove	void	(HugePtr <i>dest</i> , HugeCPtr <i>src</i>);	Copies the number of bytes specified to an overlapping location.
HugeNew	HugePtr	(PtrHugeSizeVal <i>size</i>);	Allocates a new huge pointer of the size specified.
HugeSet	void	(HugePtr <i>ptr</i> , Byte <i>byte</i> , PtrHugeSizeVal <i>size</i>);	Sets the specified number of bytes of a buffer to a value specified.
HugeSetByte	void	(HugePtr <i>ptr</i> , PtrHugeSizeVal <i>offset</i> , Byte <i>byte</i>);	Sets new value at address <i>ptr</i> + <i>'offset'</i> to <i>'byte'</i> .
HugeSetSize	HugePtr	(HugePtr <i>ptr</i> , PtrHugeSizeVal <i>size</i>);	Changes the size of the pointer specified.
HugeSwap	void	(HugePtr <i>p1</i> , HugePtr <i>p2</i> , PtrHugeSizeVal <i>size</i>);	Copies <i>'size'</i> first bytes of <i>'p1'</i> to <i>'p2'</i> and vice versa. <i>'p1'</i> and <i>'p2'</i> must NOT overlap.
HugeSwapByte	void	(HugePtr <i>p1</i> , PtrHugeSizeVal <i>offset1</i> , HugePtr <i>p2</i> , PtrHugeSizeVal <i>offset2</i>);	Exchanges values at <i>ptr1</i> + <i>'offset1'</i> and <i>'ptr2'</i> + <i>'offset2'</i> .
Int16ToMch	void	(Int16Ptr <i>valp</i>);	Converts in place an integer from standard format into the machine-dependent format.
Int16ToStd	void	(Int16Ptr <i>valp</i>);	Converts in place an integer from the machine-dependent format to the standard format.
Int32ToMch	void	(Int32Ptr <i>valp</i>);	Converts in place an integer from standard format into the machine-dependent format.
Int32ToStd	void	(Int32Ptr <i>valp</i>);	Converts in place an integer from the machine-dependent format to the standard format.
Int8ToMch	void	(Int8Ptr <i>valp</i>);	Converts in place an integer from standard format into the machine-dependent format.
Int8ToStd	void	(Int8Ptr <i>valp</i>);	Converts in place an integer from the machine-dependent format to the standard format.
Matches	BoolEnum	(VoidCPtr <i>p1</i> , VoidCPtr <i>p2</i> , PtrSizeVal <i>size</i>);	Returns whether <i>'p1'</i> and <i>'p2'</i> match exactly on their first <i>'size'</i> .
Move	void	(VoidPtr <i>dest</i> , VoidCPtr <i>src</i> , PtrSizeVal <i>number</i>); (HugePtr <i>dest</i> , HugeCPtr <i>src</i>);	Copies the number of bytes specified to an overlapping location.
New	VoidPtr	(PtrSizeVal <i>size</i>);	Allocates a new pointer of the size specified or for named structure.
QueryStats	void	(PtrStatsPtr <i>ptr</i>);	Determines the current memory manager statistics.
ReadInt16	void	(VoidCPtr <i>ptr</i> , Int16Ptr <i>valp</i>);	Reads a machine-dependent integer from a memory buffer <i>'ptr'</i> where integers are in standard format.

Function	Returns	Arguments	Description
ReadInt32	void	(VoidCPtr <i>ptr</i> , Int32Ptr <i>valp</i>);	Reads a machine-dependent integer from a memory buffer 'ptr' where integers are in standard format.
ReadInt8	void	(VoidCPtr <i>ptr</i> , Int8Ptr <i>valp</i>);	Reads a machine-dependent integer from a memory buffer 'ptr' where integers are in standard format.
ReadStr	void	(HugeCPtr <i>ptr</i> , Str <i>str</i> , StrIVal <i>len</i>);	Reads a machine-dependent string from a memory buffer where strings are stored in standard format.
Set	void	(VoidPtr <i>dest</i> , Byte <i>byte</i> , PtrSizeVal <i>number</i>);	Sets the specified number of bytes of a buffer to a value specified.
SetByte	void	(VoidPtr <i>ptr</i> , PtrSizeVal <i>offset</i> , Byte <i>byte</i>);	Sets new value at address <i>ptr</i> + <i>'offset'</i> to <i>'byte'</i> .
SetFailProc	void	(PtrFailProc <i>failProc</i>);	Sets a custom failure callback procedure.
SetSize	VoidPtr	(VoidPtr <i>ptr</i> , PtrSizeVal <i>size</i>);	Changes the size of the pointer specified.
StatsOutput	void	(void);	Outputs memory manager statistics to standard output.
StrToMch	void	(Str <i>str</i> , StrIVal <i>len</i>);	Converts strings to and from standard format.
StrToStd	void	(Str <i>str</i> , StrIVal <i>len</i>);	Converts strings to and from standard format.
Swap	void	(VoidPtr <i>p1</i> , VoidPtr <i>p2</i> , PtrSizeVal <i>size</i>);	Copies <i>'size'</i> first bytes of <i>'p1'</i> to <i>'p2'</i> and vice versa. <i>'p1'</i> and <i>'p2'</i> must NOT overlap.
SwapByte	void	(VoidPtr <i>p1</i> , PtrSizeVal <i>offset1</i> , VoidPtr <i>p2</i> , PtrSizeVal <i>offset2</i>);	Exchanges values at <i>ptr1</i> + <i>'offset1'</i> and <i>'ptr'</i> + <i>'offset'</i>
WriteInt16	void	(VoidPtr <i>ptr</i> , Int16CPtr <i>valp</i>);	Writes a machine-dependent integer into a memory buffer 'ptr' where integers are in standard format.
WriteInt32	void	(VoidPtr <i>ptr</i> , Int32CPtr <i>valp</i>);	Writes a machine-dependent integer into a memory buffer 'ptr' where integers are in standard format.
WriteInt8	void	(VoidPtr <i>ptr</i> , Int8CPtr <i>valp</i>);	Writes a machine-dependent integer into a memory buffer 'ptr' where integers are in standard format.
WriteStr	void	(HugeCPtr <i>ptr</i> , Str <i>str</i> , StrIVal <i>len</i>);	Writes a machine-dependent string into a memory buffer where strings are stored in standard format.

NDRClas:: Class

Function	Returns	Arguments	Description
CPlusRegister	RClasPtr	(CStr <i>name</i> , RClasNewProc <i>nProc</i> , RClasDeleteProc <i>dProc</i> , ResNfyProc <i>nfy</i> , RClasPtr <i>pClass</i> , PFldPtr <i>oi-Fields</i>);	Registration of a C++ subclass to the resource manager.
FindByName	RClasPtr	(CStr <i>name</i>);	Returns a class by name.
GetDefNfy	ResNfyProc	(void);	Get the default notification handler of an RClas.
GetFields	PFldPtr	(void);	Functions that get the various fields of an RClas structure.
GetFirst	RClasPtr	(void);	Returns the first alphabetical resource class.
GetFlags	RClasFlagsSet	(void);	Functions that get the various fields of an RClas structure.
GetModName	CStr	(void);	Functions that get the various fields of an RClas structure.
GetName	CStr	(void);	Functions that get the various fields of an RClas structure.
GetNext	RClasPtr	(void);	Returns the class that is alphabetically after the class specified.
GetParentClass	RClasPtr	(void);	Functions that get the various fields of an RClas structure.
GetSizeOfRes	PtrSizeVal	(void);	Functions that get the various fields of an RClas structure.
GetTemplate	ResPtr	(void);	Functions that get the various fields of an RClas structure.
GetVersion	RClasVersion-Val	(void);	Functions that get the various fields of an RClas structure.
IsSubClassOf	BoolEnum	(RClasCPtr <i>parentclass</i>);	Determines whether one class is a subclass of another.
OperatorDelete	void	(VoidPtr <i>obj</i>);	Default allocation method for all Open Interface classes
OperatorNew	VoidPtr	(PtrSizeVal <i>size</i>);(Default deallocation method for all Open Interface classes.
ProcessDefNfy	void	(ResPtr <i>res</i> , ResNfyEnum <i>code</i>);	Trigger the default notification procedure on an instance.
ProcessParentDefNfy	void	(ResPtr <i>res</i> , ResNfyEnum <i>code</i>);(Trigger the parent default notification procedure on an instance.
SetDefNfy	void	(ResNfyProc <i>defnfy</i>);	Set the default notification handler for an RClass.

Class tables

SetFields	void	(PFldPtr <i>fields</i>);	Functions that set the various fields of an RClas structure.
SetFlags	void	(RClasFlagsSet <i>flags</i>);	Functions that set the various fields of an RClas structure.
SetModName	void	(CStr <i>modname</i>);	Functions that set the various fields of an RClas structure.
SetName	void	(CStr <i>name</i>);	Functions that set the various fields of an RClas structure.
SetParentClass	void	(RClasPtr <i>parent</i>);	Functions that set the various fields of an RClas structure.
SetSizeOfRes	void	(PtrSizeVal <i>size</i>);	Functions that set the various fields of an RClas structure.
SetVersion	void	(RClasVersionVal <i>version</i>);	Functions that set the various fields of an RClas structure.

NDRect16:: Class

Function	Returns	Arguments	Description
AbsDist	Int16	(Point16Ptr <i>p2</i>);	Returns the absolute distance between two points.
ContainsPoint	void	(Point16CPtr <i>p</i>);	Determines whether a rectangle contains the point specified.
Copy	void	(Rect16CPtr <i>src</i>);	Copies a rectangle.
CopyResetOri	void	(Rect16CPtr <i>src</i>);	Copies 'src' into 'dst', but then sets dst->Ori to (0,0).
Equals	BoolEnum	(Rect16CPtr <i>r2</i>);	Returns BOOL_TRUE if 'r1' and 'r2' are identical.
GetBegX	Int16	(void);	Gets one Origin/Extent coordinate.
GetBegY	Int16	(void);	Gets one Origin/Extent coordinate.
GetEndX	Int16	(void);	Gets one Origin/Extent coordinate.
GetEndY	Int16	(void);	Gets one Origin/Extent coordinate.
GetExtX	Int16	(void);	Gets one Origin/Extent coordinate.
GetExtY	Int16	(void);	Gets one Origin/Extent coordinate.
GetOriX	Int16	(void);	Gets one Origin/Extent coordinate.
GetOriY	Int16	(void);	Gets one Origin/Extent coordinate.
IncludesNonEmptyRect	BoolEnum	(Rect16CPtr <i>r1</i>);	Returns BOOL_TRUE if 'r1' is included in 'r2' (assuming 'r1' is not empty).
IncludesRect	BoolEnum	(Rect16CPtr <i>r1</i>);	Determines whether a rectangle contains the rectangle specified.
IncOriExtXY	void	(Int16 <i>orix</i> ,Int16 <i>oriy</i> ,Int16 <i>extx</i> ,Int16 <i>exty</i>);	Increments all Origin/Extent coordinates.
Intersects	BoolEnum	(Rect16CPtr <i>r2</i>);	Determines whether two rectangles intersect.
Intersection	void	(Rect16CPtr <i>src</i>);	Sets 'dst' to the intersection of 'dst' and 'src'.
IsEmpty	BoolEnum	(void);	Determines whether a point is empty.
IsValid	BoolEnum	(void);	Determines whether a rectangle has valid coordinates.
MakeFit	void	(Rect16CPtr <i>out</i>);	Repositions a rectangle so that it is contained within the rectangle specified.
MakeValid	BoolEnum	(void);	Changes the coordinates of the rectangle specified to make them valid.
MoveInside	void	(Rect16CPtr <i>out</i>);	Moves one rectangle inside another.

Function	Returns	Arguments	Description
Reset	void	(void);	Resets the coordinates of a rectangle to 0.
SetByPoints	void	(Point16CPtr <i>beg</i> , Point16CPtr <i>end</i>);	Sets the coordinates of a rectangle to the points specified.
SetBegX	void	(Int16 <i>val</i>);	Sets one Origin/Extent coordinate.
SetBegY	void	(Int16 <i>val</i>);	Sets one Origin/Extent coordinate.
SetEndX	void	(Int16 <i>val</i>);	Sets one Origin/Extent coordinate.
SetEndY	void	(Int16 <i>val</i>);	Sets one Origin/Extent coordinate.
SetExtX	void	(Int16 <i>val</i>);	Sets all Origin/Extent coordinates.
SetExtY	void	(Int16 <i>val</i>);	Sets all Origin/Extent coordinates.
SetOriExtXY	void	(Int16 <i>orix</i> , Int16 <i>oriy</i> , Int16 <i>extx</i> , Int16 <i>exty</i>);	Sets all Origin/Extent coordinates.
SetOriX	void	(Int16 <i>val</i>);	Sets all Origin/Extent coordinates.
SetOriY	void	(Int16 <i>val</i>);	Sets all Origin/Extent coordinates.
Union	void	(Rect16CPtr <i>src</i>);	Determines the union of two rectangles.

NDRect32:: Class

Function	Returns	Arguments	Description	
AbsDist	Int32	(Point32Ptr <i>p2</i>);	Returns the absolute distance between two p	
ContainsPoint	void	(Point32CPtr <i>p</i>);	Determines whether a rectangle contains the	
Copy	void	(Rect32CPtr <i>src</i>);	Copies a rectangle.	
CopyResetOri	void	(Rect32CPtr <i>src</i>);	Copies 'src' into 'dst', but then sets dst->Ori	
Equals	BoolEnum	(Rect32CPtr <i>r2</i>);	Returns BOOL_TRUE if 'r1' and 'r2' are iden	
GetBegX	Int32	(void);	Gets one Origin/Extent coordinate.	
GetBegY	Int32	(void);	Gets one Origin/Extent coordinate.	
GetEndX	Int32	(void);	Gets one Origin/Extent coordinate.	
GetEndY	Int32	(void);	Gets one Origin/Extent coordinate.	
GetExtX	Int32	(void);	Gets one Origin/Extent coordinate.	
GetExtY	Int32	(void);	Gets one Origin/Extent coordinate.	
GetOriX	Int32	(void);	Gets one Origin/Extent coordinate.	
GetOriY	Int32	(void);	Gets one Origin/Extent coordinate.	
IncludesNonEmptyR ect	BoolEnum	(Rect32CPtr <i>r1</i>);	Returns BOOL_TRUE if 'r1' is included in 'r	empty).
IncludesRect	BoolEnum	(Rect32CPtr <i>r1</i>);	Determines whether a rectangle contains the	
IncOriExtXY	void	(Int32 <i>orix</i> , Int32 <i>oriy</i> , Int32 <i>extx</i> , Int32 <i>exty</i>);	Increments all Origin/Extent coordinates.	
Intersects	BoolEnum	(Rect32CPtr <i>r2</i>);	Determines whether two rectangles intersec	
Intersection	void	(Rect32CPtr <i>src</i>);	Sets 'dst' to the insersection of 'dst' and 'src'	
IsEmpty	BoolEnum	(void);	Determines whether a point is empty.	
IsValid	BoolEnum	(void);	Determines whether a rectangle has valid co	
MakeFit	void	(Rect32CPtr <i>out</i>);	Repositions a rectangle so that it is containe	specified.
MakeValid	BoolEnum	(void);	Changes the coordinates of the rectangle spe	
MoveInside	void	(Rect32CPtr <i>out</i>);	Moves one rectangle inside another.	
Reset	void	(void);	Resets the coordinates of a rectangle to 0.	
SetByPoints	void	(Point32CPtr <i>beg</i> , Point32CPtr <i>end</i>);	Sets the coordinates of a rectangle to the poi	
SetBegX	void	(Int32 <i>val</i>);	Sets one Origin/Extent coordinate.	
SetBegY	void	(Int32 <i>val</i>);	Sets one Origin/Extent coordinate.	
SetEndX	void	(Int32 <i>val</i>);	Sets one Origin/Extent coordinate.	
SetEndY	void	(Int32 <i>val</i>);	Sets one Origin/Extent coordinate.	
SetExtX	void	(Int32 <i>val</i>);	Sets all Origin/Extent coordinates.	
SetExtY	void	(Int32 <i>val</i>);	Sets all Origin/Extent coordinates.	

Function	Returns	Arguments	Description
SetOriExtXY	void	(Int32orix,nt32oriy, Int32extx,Int32exty);	Sets all Origin/Extent coordinates.
SetOriX	void	(Int32val);	Sets all Origin/Extent coordinates.
SetOriY	void	(Int32val);	Sets all Origin/Extent coordinates.
Union	void	(Rect32CPtr src);	Determines the union of two rectangles.

NDRes:: Class

Function	Returns	Arguments	Description
CheckClass	void	(RClasCPtr <i>class</i>);	Provides a way for recovering from the specification of an invalid class.
Class	RClasPtr	(void);	Returns a pointer to the Res class.
ClassDefNfy	void	(ResNfyEnum <i>code</i>);	Trigger the default notification procedure on an instance.
Clone	ResPtr	(BoolEnum <i>deep</i>);	Creates a resource with all the persistent fields copied from 'sourceRes'.
CmdIssue	void	(void);	Issue the resource's command for execution.
CmdSend	void	(ResPtr <i>start</i> , CmdCtlEnum <i>ctl</i>);	Start routing of the resource's command at given 'start' point. (start is sent a NfyCommandRoute notification with 'ctl' as argument).
CmdTableHandle	void	(CmdTablePtr <i>table</i>);	To be used upon NfyCommand notifications: fetches the command object and searches the given command table, using the default RES_TableHandle method.
CmdUpdate	void	(void);	Issue the resource's command as command query for self updating.
DefNfy	void	(ResNfyEnum <i>notif</i>);	Default notification handler for a resource class.
ExecuteScript	BoolEnum	(ResNfyEnum <i>code</i>);	This function causes the script for the event 'code' to be executed, if such a script is attached to the resource.
FilenameOutputRc	void	(CStr <i>filename</i>);	Outputs resource to the text file specified by filename.
Find	ResPtr	(CStr <i>modname</i> , CStr <i>rename</i>);	Loads a resource by class name and resource name, returning NULL if the resource does not exist.
FindByFullName	ResPtr	(CStr <i>Mod.Res</i>);	Loads the attached resource specified, returning NULL if the resource does not exist.
GetClass	RClasCPtr	(void);	Returns the class of the resource specified.
GetClientData	ClientPtr	(void);	Returns the client data of a resource.
GetName	CStr	(void);	Returns the name of a resource as a NULL-terminated string.

Function	Returns	Arguments	Description
GetNfyCmd	CmdPtr	(void);	Returns the CmdPtr associated to a command notification.
GetNfyData	ClientPt	(void);	Returns the notify data of a resource.
GetNfyHandlerClientData	ClientPtr	(ResNfyEnum <i>nfy</i>);	Returns the ClientData installed for 'res' to process the 'nfy' message.
GetNfyHandlerProc	ResNfy-Handler-Proc	(ResNfyEnum <i>nfy</i>);	Returns the handler procedure installed for 'res' to process the 'nfy' message.
GetNfyProc	ResNfyProc	(void);	Returns the currently installed notification routine for a resource.
GetNthChild	ResPtr	(ArrayIVal <i>child</i>);	Returns the child resource specified for a resource.
GetNumChildren	ArrayIVal	(void);	Returns the total number of child resources belonging to a resource.
InheritsFrom	BoolEnum	(RClasCPtr <i>parentclass</i>);	Determines whether one class inherits from another class.
IsCmdSource	BoolEnum	(void);	Returns whether the resource has the RES_FLAGISCOMMANDSOURCE flag set.
IsInitialized	BoolEnum	(void);	Determines whether a resource has been initialized already.
IsNamed	BoolEnum	(void);	Determines whether a resource has a name or not.
LibExit	void	(void);	Exits the Res library, making all Open Interface libraries unavailable.
LibInit	void	(void);	Installs, loads, and initializes the Res library, making all Open Interface libraries available, except Genwin.
LibInstall	void	(void);	Installs the Res library, making all Open Interface libraries available, except Genwin.
LibLoadInit	void	(void);	Loads and initializes the Res library, making all Open Interface libraries available, except Genwin.
Load	ResPtr	(CStr <i>module</i> , CStr <i>resource</i>);	Loads a resource using two parameters.
LoadByFullName	ResPtr	(CStr <i>fullName</i>);	Loads a resource using a single parameter.
LoadChildren	void	(void);	Loads all of the children resources for a resource.

Function	Returns	Arguments	Description
LoadDetach	ResPtr	(CStr <i>module</i> , CStr <i>resource</i>);	Loads a detached resource.
LoadInit	ResPtr	(CStr <i>module</i> , CStr <i>resource</i>);	Loads and initializes an attached resource.
LoadInitDetach	void	(CStr <i>module</i> , CStr <i>resource</i>);	Loads and initializes a detached resource.
LockedSendNfyData	void	(ResPtr <i>res</i> , ResNfyEnum <i>code</i> , ClientPtr <i>nfyData</i>);	Notifies resource clients and sends data specified.
ParentClassDefNfy	void	(ResNfyEnum <i>code</i>);	Trigger the parent default notification procedure on an instance.
QueryFullName	void	(Str <i>name</i> , StrIVal <i>length</i>);	Determines the full name of a resource.
Release	void	(void);	Deallocates persistent resource fields.
RemoveNfyHandler	void	(ResNfyEnum <i>nfy</i>);	Remove the handler installed to process the 'nfy' message to 'res'.
SaveDat	void	(void);	Saves attached resources to library database (.DAT) file.
SendCtrlNfyData	void	(ResNfyEnum <i>code</i> , ResCtrlNfyPtr <i>resCtrlNfy</i>);	Send a CtrlNfyData notification.
SendNfy	void	(ResNfyEnum <i>notif</i>);	Sends a notification to the notification procedure of a resource.
SendNfyData	void	(ResNfyEnum <i>notif</i> , ClientPtr <i>data</i>);	Notifies resource clients and sends data specified.
SendNfyEnd	void	(void);	Sends a NDRes::NFYEND to the resource specified.
SendNfyInit	void	(void);	Sends a NDRes::NFYINIT to the resource specified.
SendNfyReset	void	(void);	Sends a NDRes::NFYRESET to the resource specified.
SetClientData	void	(ClientPtr <i>data</i>);	Sets the specified client data of a resource.
SetNfyHandler	void	(ResNfyEnum <i>nfy</i> , ResNfyHandlerProc <i>proc</i>);	Installs "proc" to process the "nfy" notification messages sent to "res". "proc" will be called with the resource, the notification code "nfy" and the nfyData corresponding to the notification 'nfy' as arguments.
SetNfyHandlerClientData	void	(ResNfyEnum <i>nfy</i> , ClientPtr <i>data</i>);	Associates 'data' with the call-back defined for the resource and the notification 'code'. 'data' can later be retrieved using RES_GetNfyHandlerClientData if needed.

Function	Returns	Arguments	Description
SetNfyProc	void	(ResNfyProc <i>nfyproc</i>);	Sets a client notification routine for a resource.
Use	void	(void);	Increments the reference count of a resource.
VERIFY	void	(RClasCPtr <i>class</i>);	Provides a handler for recovering from the specification of an invalid class.

NDRgn::_ Class

Function	Returns	Arguments	Description
IsEqual	BoolEnum	(RegionCPtr <i>region2</i>);	Determines whether two regions are equal.
IsEmpty	BoolEnum	(void);	Determines whether a region is empty.
IsPointInside	void	(Point16CPtr <i>point</i>);	Determines whether a point is inside a region.
PropagateAction	PerfEnum	(RgnPerfProc <i>proc</i> , ClientPtr <i>clientdata</i>);	Performs an action on all rectangles belonging to region.
QueryBounds	void	(Point16Ptr <i>point</i>);	Determines the boundaries of a region.
RectIntersect	void	(Rect16CPtr <i>rectangle</i>);	Creates an intersection of a region and a rectangle.
RectPos	RgnPosEnum	(Rect16CPtr <i>rectangle</i>);	Returns a code indicating the position of a rectangle relative to a region.
RectSet	void	(Rect16CPtr <i>rectangle</i>);	Associates a region with a rectangle.
RectSubtract	void	(Rect16CPtr <i>rectangle</i>);	Subtracts a rectangle from a region.
RectUnion	void	(Rect16CPtr <i>rectangle</i>);	Creates a union of a rectangle and a region.
RectXOr	void	(Rect16CPtr <i>rectangle</i>);	Performs an exclusive Or between a region and a rectangle.
Reset	void	(void);	Resets a region to empty.
RgnIntersect	void	(RegionCPtr <i>region2</i>);	Creates an intersection of two regions.
RgnSet	void	(RegionCPtr <i>region2</i>);	Sets the coordinates of one region as specified by another.
RgnSubtract	void	(RegionCPtr <i>region2</i>);	;Subtracts one region from another.
RgnUnion	void	(RegionCPtr <i>region2</i>);	Creates a union of two regions.
RgnXOr	void	(RegionCPtr <i>region2</i>);	Performs an exclusive Or on two regions.
Translate	void	(Point16CPtr <i>point</i>);	Translates a region by the offset specified.

NDRLib:: Class

Function	Returns	Arguments	Description
Close	void	(void);	Closes a file.
Dispose	void	(void);	Unloads library 'lib' and all the resources it contains and closes the file.
Find	RLibPtr	(CStr <i>libname</i>);	Returns a pointer to a library.
GetFirst	RLibPtr	(void);	Returns the first library in the list.
GetLibName	CStr	(void);	Returns the name of a library.
GetNext	RLibPtr	(void);	Returns the next library in the list.
LoadEdit	RLibPtr	(CStr <i>libname</i> , CStr <i>filename</i>);	Loads a library database file by full name in read-write mode and returns a pointer to the library.
LoadFile	RLibPtr	(CStr <i>fullname</i>);	Loads a library database file by full name and returns it.
LoadLibFile	RLibPtr	(RLibPtr <i>lib</i>);	Loads a library.
Open	void	(void);	Opens a file.
Unload	void	(void);	Unloads library 'lib' from memory and closes the file.

NDSBuf:: Class

Function	Returns	Arguments	Description
AppendSBuf	void	(SBufCPtr <i>sbuf2</i>);	Append string, variable string or string buffer.
AppendStr	void	(CStr <i>str</i>);	Append string, variable string or string buffer.
AppendChar8	void	(ChCode <i>chcode</i>);	Append string, variable string or string buffer.
AppendStrSub	void	(CStr <i>str</i> , StrIVal <i>slen</i>);	Append string, variable string or string buffer.
AppendVStr	void	(VStrCPtr <i>vstr</i>);	Append string, variable string or string buffer.
Clear8	void	(void);	Clear context of string buffer specified.
CountToIndex	StrIVal	(StrIVal <i>charCount</i>);	Convert character count to index.
DownCase	void	(void);	Convert string to lower case.
DownCaseSub	void	(StrIVal <i>index1</i> , StrIVal <i>index2</i>);	Convert string to lower case.
GetBwrld	ChCode	(StrIVal <i>index</i> , StrIValPtr <i>wp</i>);	Return character code before or after index specified.
GetByte	Byte	(StrIVal <i>index</i>);	Returns the byte at index specified.
GetFwrld	ChCode	(StrIVal <i>index</i> , StrIValPtr <i>wp</i>);	Return character code before or after index specified.
GetLen	StrIVal	(void);	Returns the length of the string buffer.
GetStr	CStr	(void);	Returns the contents of the string buffer.
GetSubStr	CStr	(StrIVal <i>index1</i> , StrIVal <i>index2</i>);	Return the string specified by index range.
IMatchesChar	BoolEnum	(StrIVal <i>index</i> , ChCode <i>ch</i> , StrIValPtr <i>endp</i>);	Returns whether a case insensitive string match is found.
IMatchesSBuf	BoolEnum	(StrIVal <i>index</i> , SBufPtr <i>sbuf2</i> , StrIValPtr <i>endp</i>);	Returns whether a case insensitive string match is found.
IMatchesStr	BoolEnum	(StrIVal <i>index</i> , CStr <i>str</i> , StrIValPtr <i>endp</i>);	Returns whether a case insensitive string match is found.

Function	Returns	Arguments	Description
IMatchesStrSub	BoolEnum	(StrIVal <i>index</i> , CStr <i>str</i> , StrIVal <i>slen</i> , StrIValPtr <i>endp</i>);	Returns whether a case insensitive string match is found.
IndexToCount	StrIVal	(StrIVal <i>index</i>);	Convert byte offset to character count.
InsertChar	StrIVal	(StrIVal <i>index1</i> , ChCode <i>chcode</i>);	Insert character, string, variable string or string buffer at index specified.
InsertSBuf	StrIVal	(StrIVal <i>index1</i> , SBufCPtr <i>sbuf2</i>);	Insert character, string, variable string or string buffer at index specified.
InsertStr	StrIVal	(StrIVal <i>index1</i> , CStr <i>str</i>);	Insert character, string, variable string or string buffer at index specified.
InsertStrSub	StrIVal	(StrIVal <i>index1</i> , CStr <i>str</i> , StrIVal <i>slen</i>);	Insert character, string, variable string or string buffer at index specified.
InsertVStr	StrIVal	(StrIVal <i>index1</i> , VStrCPtr <i>vstr</i>);	Insert character, string, variable string or string buffer at index specified.
MatchesChar	BoolEnum	(StrIVal <i>index</i> , ChCode <i>ch</i> , StrIValPtr <i>endp</i>);	Returns whether a case sensitive string match is found.
MatchesIChar	BoolEnum	(StrIVal <i>index</i> , ChCode <i>ch</i> , BoolEnum <i>icase</i> , StrIValPtr <i>endp</i>);	Returns whether a case insensitive string match is found.
MatchesISBuf	BoolEnum	(StrIVal <i>index</i> , SBufPtr <i>sbuf2</i> , BoolEnum <i>icase</i> , StrIValPtr <i>endp</i>);	Returns whether a case sensitive string match is found.
MatchesIStr	BoolEnum	(StrIVal <i>index</i> , CStr <i>str</i> , BoolEnum <i>icase</i> , StrIValPtr <i>endC</i>);	Returns whether a case sensitive string match is found.
MatchesIStrSub	BoolEnum	(StrIVal <i>index</i> , CStr <i>str</i> , StrIVal <i>slen</i> , BoolEnum <i>icase</i> , StrIValPtr <i>end</i>);	Returns whether a case sensitive string match is found.
MatchesSBuf	BoolEnum	(StrIVal <i>index</i> , SBufPtr <i>sbuf2</i> , StrIValPtr <i>endp</i>);	Returns whether a case sensitive string match is found.
MatchesStr	BoolEnum	(StrIVal <i>index</i> , CStr <i>str</i> , StrIValPtr <i>endC</i>);	Returns whether a case sensitive string match is found.
MatchesStrSub	BoolEnum	(StrIVal <i>index</i> , CStr <i>str</i> , StrIVal <i>slen</i> , StrIValPtr <i>end</i>);	Returns whether a case sensitive string match is found.
RemoveChar	void	(StrIVal <i>index</i>);	Remove character at index specified.

Function	Returns	Arguments	Description
RemoveRange	void	(StrIVal <i>index1</i> , StrIVal <i>index2</i>);	Remove range of characters specified.
ReplaceChar	StrIVal	(StrIVal <i>index1</i> , ChCode <i>ch</i>);	Replace string character.
SetSBuf	void	(SBufCPtr <i>sbuf2</i>);	Replace the contents of the string buffer.
SetStr	void	(CStr <i>str</i>);	Replace the contents of the string buffer.
SetStrSub	void	(CStr <i>str</i> , StrIVal <i>slen</i>);	Replace the contents of the string buffer.
SetVStr	void	(VStrCPtr <i>vstr</i>);	Replace the contents of the string buffer.
Truncate	void	(StrIVal <i>index</i>);	Truncate string at index specified.
UpCase	void	(void);	Convert string to upper case.
UpCaseSub	void	(StrIVal <i>index1</i> , StrIVal <i>index2</i>);	Convert string to upper case.

NDScript:: Class

Function	Returns	Arguments	Description
Compile	ScriptPtr	(Str <i>sourceCode</i>);	Compiles the bare script passed to it as a string, and returns a pointer to the compiled form of that script.
CompileFile	ScriptPtr	(Str <i>fileName</i>);	Compiles the bare script contained in the file specified by 'fileName' and returns a pointer to the compiled form of the script.
CompileResource	ScriptPtr	(Str <i>resName</i>);	Compiles the bare script contained in the string resource 'resName' and returns a pointer to the compiled form of the script.
Dispose	void	(ScriptPtr <i>script</i>);	This function disposes the compiled bare script 'script', freeing all of the memory used by the compiled form.
Execute	BoolEnum	(ScriptPtr <i>script</i>);	This function executes the compiled script 'script'.
ExecuteApp	void	(void);	Loads the script from the file identified by fileName, compiles it and executes it.
GetReturnType	Int32	(ScriptPtr <i>script</i>);	Obtains the type of the value which was returned by execution of the script 'script'.
LibExit	void	(void);	Unloading and uninstalling the script library.
LibInit	void	(void);	Convenience: Installing and initializing the script library.
LibInstall	void	(void);	Installing the script library.
LibLoadInit	void	(void);	Initialization and loading the script library.

Function	Returns	Arguments	Description
QueryReturnValue	void	(ScriptPtr <i>script</i> , ClientPtr <i>value</i>);	Copies the value which was returned by execution of the script <code>`script'</code> into the buffer pointed to by <code>`value'</code> .
RegisterConstants	void	(ScriptRegisterConstPtr <i>constants</i> , BoolEnum <i>checkDup</i>);	Registers the constant identified by constants.
RegisterEvents	void	(ScriptRegisterEventPtr <i>event</i> , BoolEnum <i>checkDup</i>);	Registers the event identified by event.
RegisterVerbs	void	(ScriptRegisterVerbPtr <i>verb</i> , BoolEnum <i>checkDup</i>);	Registers the verb identified by verb.
RunApp	void	(CStr <i>fileName</i>);	Loads the script from the file identified by <code>fileName</code> , compiles it and executes it.
SetStringReturnValue	void	(Str <i>val</i>);	Sets the string to return to the script engine for newly registered verbs.

NDSSet:: Class

Function	Returns	Arguments	Description
AddElt	void	(SetEltVal <i>elt</i>);	Adds 'elt' to the set (unless it is already in).
AddElts	void	(SetLenVal <i>n</i> , SetEltValPtr <i>elts</i>);	Adds elts[0], elts[1], ...,elts[n-1] to the set (unless they are already in).
AreEqual	void	(SetCPtr <i>A</i> , SetCPtr <i>B</i>);	Returns BOOL_TRUE if sets A and B are equal.
ContainsElt	BoolEnum	(SetEltVal <i>elt</i>);	Returns BOOL_TRUE if 'elt' is in the set.
Copy	void	(SetCPtr <i>src</i>);	Empties 'dst', then copies the contents of 'src' into 'dst'.
EmptySet	SetPtr	(void);	Returns a pointer to a shared empty set.
GetNumElts	SetLenVal	(void);	Returns the number of elements in set.
MixGetPartSet	SetMixPartSet	(SetCPtr <i>A</i> , SetCPtr <i>B</i>);	Compares two sets A and B and returns the set of parts which are not empty.
MixQueryParts	void	(SetCPtr <i>A</i> , SetCPtr <i>B</i> , SetMixPartSet <i>parts</i> , SetPtr <i>C</i>);	Combines A and B and extracts the specified parts.
QueryElts	void	(SetLenVal <i>n</i> , SetEltValPtr <i>elts</i>)	Queries the first 'n' elements of the set and put them into 'elts'.
RemoveElt	void	(SetEltVal <i>elt</i>);	Removes 'elt' from the set (unless it is not in).
RemoveElts	void	(SetLenVal <i>n</i> , SetEltValPtr <i>elts</i>);	Removes elts[0], elts[1], ...,elts[n-1] from the set (unless they are not in the set).
Reset	void	(void);	Empties the set.
SetElts	void	(SetLenVal <i>n</i> , SetEltValPtr <i>elts</i>);	Sets the first 'n' elements of the set to the values taken from 'elts'.

NDStr:: Class

Function	Returns	Arguments	Description
Append	void	(StrPtr <i>sptr</i> , CStr <i>string</i>);	Appends a string.
AppendSub	void	(StrPtr <i>sptr</i> , CStr <i>string</i> , StrIVal <i>length</i>);	Appends a substring.
AsciiDownCase	void	(Str <i>s</i>);	Converts a string to lower case.
AsciiDownCaseSub	void	(Str <i>s</i> , StrIVal <i>length</i>);	Converts a substring to lower case.
AsciiUpCase	void	(Str <i>s</i>);	Converts a substring to upper case.
AsciiUpCaseSub	void	(Str <i>s</i> , StrIVal <i>length</i>);	Converts a string to upper case.
Clone	Str	(CStr <i>s</i>);	Returns a new copy of a string.
Cmp	CmpEnum	(CStr <i>s1</i> , CStr <i>s2</i>);	Compares two strings.
CmpSub	CmpEnum	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Compares two substrings.
CtGetBwrld	NatCode	(NatCStr <i>nStr</i> , CtCPtr <i>code-type</i> , StrIVal <i>length</i>);	Returns the code found in front of a location in a string.
CtGetCode	NatCode	(NatCStr <i>nStr</i> , CtCPtr <i>code-type</i>);	Returns the character code found at the beginning of a string and sets the length.
CtGetFwrld	NatCode	(NatCStr <i>nStr</i> , CtCPtr <i>code-type</i> , StrIValPtr <i>lengthptr</i>);	Returns the character code found at the beginning of a string and sets the length.
Dispose	void	(Str <i>str</i>);	Disposes of a string buffer.
Dispose0	void	(Str <i>s</i>);	Disposes of a string buffer if the buffer is not NULL.
Equals	BoolEnum	(CStr <i>s1</i> , CStr <i>s2</i>);	Compares two strings for equality.
EqualsSub	BoolEnum	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Compares two substrings for equality.
FindFirst	StrIVal	(CStr <i>s1</i> , CStr <i>s2</i>);	Finds the first occurrence of a string.
FindFirstChar	StrIVal	(CStr <i>s</i> , ChCode <i>chcode</i>);	Finds the first occurrence of a character.
FindFirstCharSub	StrIVal	(CStr <i>s</i> , StrIVal <i>length</i> , ChCode <i>chcode</i>);	Find the first occurrence of a character in a substring.
FindFirstSub	StrIVal	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Switchable case-independent search for the first occurrence of a substring.
FindIFirst	StrIVal	(CStr <i>s1</i> , CStr <i>s2</i> , BoolEnum <i>casei</i>);	Switchable case-independent search for the first occurrence of a string.
FindIFirstSub	StrIVal	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i> , BoolEnum <i>casei</i>);	Switchable case-independent search for the first occurrence of a substring.
FindILast	StrIVal	(CStr <i>s1</i> , CStr <i>s2</i> , BoolEnum <i>casei</i>);	Switchable case-independent search for the last occurrence of a string.

Function	Returns	Arguments	Description
FindILastSub	StrIVal	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i> , BoolEnum <i>casei</i>);	Switchable case-independent search for the last occurrence of a substring.
FindLast	StrIVal	(CStr <i>s1</i> , CStr <i>s2</i>);	Finds the last occurrence of a string.
FindLastChar	StrIVal	(CStr <i>s</i> , ChCode <i>chcode</i>);	Finds the last occurrence of a character within a string
FindLastCharSub	StrIVal	(CStr <i>s</i> , StrIVal <i>length</i> , ChCode <i>chcode</i>);	Finds the last occurrence of a character in a substring.
FindLastSub	StrIVal	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Switchable case-independent search for the last occurrence of a substring.
GetBwrđ	ChCode	(CStr <i>s</i> , StrIVal <i>index</i> , StrIValPtr <i>lenp</i>);	Returns the code found in front of the specified location.
GetCode	ChCode	(CStr <i>string</i>);	Returns the character code found at the beginning of a string.
GetDecInt	Int	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer string.
GetDecInt16	Int16	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer string.
GetDecInt32	Int32	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer string.
GetDecUInt	UInt	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer string.
GetDecUInt16	UInt16	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer string.
GetDecUInt32	UInt32	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer string.
GetDouble	Double	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the double real numeric value found at the beginning of a double real string.
GetFwrđ	ChCode	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the character code at the beginning of a string and sets its length.
GetHexInt	Int	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer string.
GetHexInt16	Int18	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer string.
GetHexUInt	UInt	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer string.
GetHexUInt16	UInt16	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer string.

Function	Returns	Arguments	Description
GetLen	StrIVal	(CStr <i>s</i>);	Returns the length of a string.
GetRadixInt	Int	(CStr <i>s</i> , Int <i>radix</i> , StrIVal <i>lenp</i>);	Returns the integer value found at the beginning of an integer string.
GetRadixInt16	Int16	(CStr <i>s</i> , Int <i>radix</i> , StrIVal <i>lenp</i>);	Returns the integer value found at the beginning of an integer string.
GetRadixUInt32	Int32	(CStr <i>s</i> , Int <i>radix</i> , StrIVal <i>lenp</i>);	Returns the integer value found at the beginning of an integer string.
GetTruncLen	StrIVal	(CStr <i>s</i> , StrIValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer string.
ICmp	CmpEnum	(CStr <i>s1</i> , CStr <i>s2</i>);	Compares two strings.
ICmpSub	CmpEnum	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Compares two substrings.
IEquals	BoolEnum	(CStr <i>s1</i> , CStr <i>s2</i>);	Compares two strings for equality.
IEqualsSub	BoolEnum	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Compares two substrings for equality.
IFindFirstSub	StrIVal	(CStr <i>s1</i> , StrIVal <i>length1</i> , CStr <i>s2</i> , StrIVal <i>length2</i>);	Find the first occurrence of a character in a substring.
IMatchesPat	BoolEnum	(CStr <i>s1</i> , CStr <i>s2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
IMatchesPatSub	BoolEnum	(CStr <i>string1</i> , StrIVal <i>length1</i> , CStr <i>string2</i> , StrIVal <i>length2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
IMatchesSub	BoolEnum	(CStr <i>string1</i> , StrIVal <i>length1</i> , CStr <i>string2</i> , StrIVal <i>length2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
Matches	BoolEnum	(CStr <i>s1</i> , CStr <i>s2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
MatchesChar	BoolEnum	(CStr <i>s1</i> , CStr <i>s2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
MatchesPat	BoolEnum	(CStr <i>s</i> , CStr <i>s2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
MatchesPatSub	BoolEnum	(CStr <i>s1</i> , StrIVal <i>l1</i> , CStr <i>s2</i> , StrIVal <i>l2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
MatchesSub	BoolEnum	(CStr <i>s1</i> , StrIVal <i>l1</i> , CStr <i>s2</i> , StrIVal <i>l2</i> , StrIValPtr <i>lenp</i>);	Tests whether one string matches another string containing a pattern.
NatPutAscii	StrIVal	(NatStr <i>nStr</i> , StrIVal <i>index</i> , NatChar <i>lengthptr</i>);	Writes an ASCII character into a native string.
NatPutCode	StrIVal	(NatStr <i>nStr</i> , StrIVal <i>size</i> , NatCode <i>natcode</i>);	Writes a character code into a string.
NatWriteAscii	StrIVal	(NatStr <i>nStr</i> , StrIVal <i>index</i> , NatChar <i>lengthptr</i>);	

Function	Returns	Arguments	Description
NatWriteCode	StrIVal	(NatStr <i>nStr</i> , StrIVal <i>size</i> , NatCode <i>natcode</i>);	Writes a native character code into a native string without terminating the string with NULL.
NewSet	void	(CStr <i>s</i>);	Returns a new copy of a string.
Put	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , CStr <i>string</i> , StrIValPtr <i>lenp</i>);	Writes a string into a buffer.
PutAscii	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Char <i>char</i>);	Writes an ASCII character into a string.
PutAsciiLower	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , CStr <i>string</i> , StrIValPtr <i>lenp</i>);	Same as NDStr::Put, but also converts the ASCII characters in the string to lower case.
PutAsciiLowerSub	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , CStr <i>s</i> , StrIVal <i>length</i> , StrIValPtr <i>endptr</i>);	Same as NDStr::PutSub, but also converts a substring to lower case.
PutAsciiUpper	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , CStr <i>string</i> , StrIValPtr <i>lengthptr</i>);	Same as NDStr::PutSub, but also converts a substring to upper case.
PutAsciiUpperSub	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , CStr <i>s</i> , StrIVal <i>length</i> , StrIValPtr <i>endptr</i>);	Same as NDStr::PutSub, but also converts the ASCII characters in the substring to upper case.
PutCode	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , ChCode <i>chcode</i>);	Writes a character code into a string.
PutDecInt	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Int <i>int</i>);	Converts a decimal integer into its textual representation in a string buffer.
PutDecInt16	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Int16 <i>int</i>);	Converts a decimal integer into its textual representation in a string buffer.
PutDecInt32	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Int32 <i>int</i>);	Converts a decimal integer into its textual representation in a string buffer.
PutDecUInt	StrIVal	Str <i>buf</i> , StrIVal <i>size</i> , UInt <i>int</i>);	Converts a decimal integer into its textual representation in a string buffer.
PutDecUInt16	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , UInt16 <i>int</i>);	Converts a decimal integer into its textual representation in a string buffer.
PutDecUInt32	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , UInt32 <i>int</i>);	Converts a decimal integer into its textual representation in a string buffer.
PutDouble	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Double <i>double</i>);	Converts a double precision value into its textual representation in the string buffer.
PutHexInt	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Int <i>int</i>);(Str <i>buf</i> , StrIVal <i>size</i> , Int <i>int</i>);	Converts a hexadecimal integer into its textual representation in a string buffer.
PutHexInt16	StrIVal	(Str <i>buf</i> , StrIVal <i>size</i> , Int16 <i>int</i>);	Converts a hexadecimal integer into its textual representation in a string buffer.
PutHexInt32	StrIVal	Str <i>buf</i> , StrIVal <i>size</i> , Int32 <i>int</i>);	Converts a hexadecimal integer into its textual representation in a string buffer.

Function	Returns	Arguments	Description
PutHexUInt	StrIVal	(Str buf, StrIVal size, UInt int);	Converts a hexadecimal integer into its textual representation in a string buffer.
PutHexUInt16	StrIVal	(Str buf, StrIVal size, UInt16 int);	Converts a hexadecimal integer into its textual representation in a string buffer.
PutHexUInt32	StrIVal	(Str buf, StrIVal size, UInt32 int);	Converts a hexadecimal integer into its textual representation in a string buffer.
PutRadixInt16	StrIVal	(Str buf, StrIVal size, Int radix, Int16 int);	Using the radix, converts an integer into its textual representation in the string buffer.
PutRadixInt32	StrIVal	(Str buf, StrIVal size, Int radix, Int32 int);	Using the radix, converts an integer into its textual representation in the string buffer.
PutRadixUInt	StrIVal	(Str buf, StrIVal size, Int radix, UInt int);	Using the radix, converts an integer into its textual representation in the string buffer.
PutRadixUInt16	StrIVal	(Str buf, StrIVal size, Int radix, UInt16 int);	Using the radix, converts an integer into its textual representation in the string buffer.
PutRadixUInt32	StrIVal	(Str buf, StrIVal size, Int radix, UInt32 int);	Using the radix, converts an integer into its textual representation in the string buffer.
PutSub	StrIVal	(Str buf, StrIVal size, CStr s, StrIValPtr endptr);	Writes a substring into a string buffer.
ResFind	CStr	(CStr mod, CStr resource, StrIValPtr lenp);	Finds and returns a string from a StrR or StrL resource.
ResFindNth	CStr	(CStr mod, CStr resource, ArrayIVal n, StrIValPtr lenp);	Finds and returns a string from a StrR or StrL resource.
ResLoad	CStr	(CStr mod, CStr resource, StrIValPtr lenp);	Returns a string from a StrR or StrL resource.
ResLoadNth	CStr	(CStr mod, CStr resource, ArrayIVal n, StrIValPtr lenp);	Returns a string from a StrR or StrL resource.
Set	void	(StrPtr sPtr, CStr s);	Setting a new string to contain the contents of an existing string.
SetSub	void	(StrPtr sPtr, CStr s, StrIVal length);	Assigns a substring as the contents of an existing string.
SubGetDecInt	Int	(CStr s, StrIVal length, StrIValPtr lenp);	Returns the integer value found at the beginning of a decimal integer substring.
SubGetDecInt16	Int16	(CStr s, StrIVal length, StrIValPtr lenp);	Returns the integer value found at the beginning of a decimal integer substring.
SubGetDecInt32	Int32	(CStr s, StrIVal length, StrIValPtr lenp);	Returns the integer value found at the beginning of a decimal integer substring.

Function	Returns	Arguments	Description
SubGetDecUInt	UInt	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer substring.
SubGetDecUInt16	UInt16	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer substring.
SubGetDecUInt32	UInt32	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a decimal integer substring.
SubGetDouble	Double	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the double real numeric value found at the beginning of a double real substring.
SubGetHexInt	Int	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer substring.
SubGetHexInt16	Int16	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer substring.
SubGetHexInt32	Int32	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer substring.
SubGetHexUInt	UInt	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer substring.
SubGetHexUInt16	UInt16	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer substring.
SubGetHexUInt32	UInt32	(CStr <i>s</i> , StrVal <i>length</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of a hexadecimal integer substring.
SubGetRadixInt	Int	(CStr <i>s</i> , StrVal <i>length</i> , Int <i>radix</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer substring.
SubGetRadixInt16	Int16	(CStr <i>s</i> , StrVal <i>length</i> , Int <i>radix</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer substring.
SubGetRadixInt32	Int32	(CStr <i>s</i> , StrVal <i>length</i> , Int <i>radix</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer substring.
SubGetRadixUInt	UInt	(CStr <i>s</i> , StrVal <i>length</i> , Int <i>radix</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer substring.
SubGetRadixUInt16	UInt16	(CStr <i>s</i> , StrVal <i>length</i> , Int <i>radix</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer substring.
SubGetRadixUInt32	UInt32	(CStr <i>s</i> , StrVal <i>length</i> , Int <i>radix</i> , StrValPtr <i>lenp</i>);	Returns the integer value found at the beginning of an integer substring.
WriteAscii	StrVal	(Str <i>str</i> , StrVal <i>size</i> , Char <i>char</i>);	Writes an ASCII character into a string without terminating the string with NULL.

Function	Returns	Arguments	Description
WriteCode	StrIVal	(Str <i>str</i> , StrIVal <i>size</i> , ChCode <i>chcode</i>);	Writes a character code into a string without terminating the string with NULL.

NDStrL:: Class

Function	Returns	Arguments	Description
AddStr	void	(CStr <i>string</i>);	Adds a new string to a string list resource.
AddStrAtIndex	void	(ArrayIVal <i>index</i> , CStr <i>string</i>);	Inserts a new string in a string list resource at the position specified.
Class	RClasPtr	(void);	Returns a pointer to the string list class.
FindNthStr	CStr	(CStr <i>module</i> , CStr <i>resource</i> , ArrayIVal <i>index</i>);	Returns a string specified by index from a string list resource.
GetLen	ArrayIVal	(void);	Returns the number of strings stored in a string list resource.
GetNthStr	CStr	(ArrayIVal <i>index</i>);	Returns a string specified by index from a string list resource.
LoadNthStr	CStr	(CStr <i>modname</i> , CStr <i>stringresource</i> , ArrayIVal <i>index</i>);	Returns a string from a string list resource by resource name and index.
RemoveIndex	void	(ArrayIVal <i>index</i>);	Removes a string from a string list resource at the position specified.
SetNthStr	void	(ArrayIVal <i>index</i> , CStr <i>string</i>);	Replaces an existing string in a string list resource with a new string.

NDStrR:: Class

Function	Returns	Arguments	Description
Class	RClasPtr	(void);	Returns a pointer to the string resource class.
FindStr	CStr	(CStr <i>modname</i> , CStr <i>stringresource</i>);	Returns the string contained in a string resource.
GetID	StrRIdVal	(void);	Returns the id of a string resource.
GetStr	CStr	(void);	Returns the string contained in a string resource.
LoadStr	CStr	(CStr <i>modname</i> , CStr <i>stringresource</i>);	Loads the string resource by resource name.
SetId	void	(StrRIdVal <i>Id</i>);	Changes the id value of a string resource.
SetStr	void	(CStr <i>string</i>);	Replaces the string in a string resource with a new string.

NDVar:: Class

Function	Returns	Arguments	Description
Clear	void	(void);	Empties this variant.
ContainsRef	BoolEnum	(void);	Returns BOOL_TRUE if this variant contains a reference
Convert	void	(VarTypeEnum <i>destType</i>);	Converts the type of this any to the type specified by ' <i>destType</i> '.
ConvertToValue	void	(void);	If this any contains a reference the method converts this any to a value obtained by dereferencing the reference.
CopyToBoolean	BoolEnum	(void);	If this object contains a reference, writes the value of ' <i>ori</i> ' into the reference, otherwise an exception is generated.
CopyToByte	Byte	(void);	If this object contains a reference, writes the value of ' <i>ori</i> ' into the reference, otherwise an exception is generated.
CopyToChar	Char	(void);	If this object contains a reference, writes the value of ' <i>ori</i> ' into the reference, otherwise an exception is generated.
CopyToCharCode	CharCode	(void);	If this object contains a reference, writes the value of ' <i>ori</i> ' into the reference, otherwise an exception is generated.
CopyToClientPtr	ClientPtr	(void);	If this object contains a reference, writes the value of ' <i>ori</i> ' into the reference, otherwise an exception is generated.
CopyToDouble	Double	(void);	If this object contains a reference, writes the value of ' <i>ori</i> ' into the reference, otherwise an exception is generated.

Function	Returns	Arguments	Description
CopyToFloat	Float	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToInt	Int	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToInt8	Int8	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToInt16	Int16	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToInt32	Int32	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToInt64	Int64	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToLong	Long	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToStr	Str	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToType	VarPtr	(VarTypeEnum <i>destType</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.

Function	Returns	Arguments	Description
CopyToUInt	UInt	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToUInt8	UInt8	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToUInt16	UInt16	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToUInt32	UInt32	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToUInt64	UInt64	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToULong	ULong	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToValue	VarPtr	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToVARWChar	VARW-Char	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
CopyToVARWStr	VARWStr	(void);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.

Function	Returns	Arguments	Description
GetType	VarTypeEnum	(void);	Add a row at index `index` in the list by internally creating and committing an edition object.
InitClass	void	(void);	(void);
IsEmpty	BoolEnum	(void);	Returns BOOL_TRUE if the type of this variant is VAR_TYPE_NONE. Returns BOOL_FALSE otherwise.
IsNull	BoolEnum	(void);	Returns BOOL_TRUE if the type of this variant is VAR_TYPE_NULL. Returns BOOL_FALSE otherwise.
IsNullObj	BoolEnum	(void);	Returns BOOL_TRUE if the type of this variant is VAR_TYPE_NULLOBJ. Returns BOOL_FALSE otherwise.
TryConvert	BoolEnum	(VarTypeEnum <i>destType</i>);	Converts the type of this any to the type specified by `destType`.
TryConvertToValue	BoolEnum	(void);	If this object contains a reference, converts this to a value obtained by dereferencing the reference.
TryCopyToBoolEnum	BoolEnum	(BoolEnumPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToByte	BoolEnum	(Byte <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToChar	BoolEnum	(CharPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToCharCode	BoolEnum	(CharCode Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.

Function	Returns	Arguments	Description
TryCopyToClientPtr	BoolEnum	(ClientPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToDouble	BoolEnum	(DoublePtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToFloat	BoolEnum	(Float Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToInt	BoolEnum	(IntPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToInt8	BoolEnum	(Int8Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToInt16	BoolEnum	(Int16Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToInt32	BoolEnum	(Int32Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToInt64	BoolEnum	(Int64 Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToLong	BoolEnum	(LongPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.

Function	Returns	Arguments	Description
TryCopyToStr	BoolEnum	(Str <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToType	BoolEnum	(VarTypeEnum <i>destType</i> , VarPtrPtr <i>valuePtr</i>);	Returns an NDVar which contains this any converted to the type specified by `destType`.
TryCopyToUInt	BoolEnum	(UIntPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToUInt8	BoolEnum	(UInt8Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToUInt16	BoolEnum	(UInt16Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToUInt32	BoolEnum	(UInt32Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToUInt64	BoolEnum	(UInt64 Ptr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToULong	BoolEnum	(ULongPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToValue	BoolEnum	(void);	If this contains a reference, the method returns an NDVar containing a value obtained by dereferencing the reference.

Function	Returns	Arguments	Description
TryCopyToVARWChar	BoolEnum	(VARWCharPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryCopyToVARWStr	BoolEnum	(VARWStrPtr <i>valuePtr</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
TryUpdate	BoolEnum	(NDVarCRef <i>ori</i>);	If this object contains a reference, writes the value of `ori` into the reference, otherwise an exception is generated.
UnloadClass	void	(void);	Called by OA library exit to unload any static initialization of this class.
Update	void	(NDVarCRef <i>ori</i>);	If this object contains a reference, writes the value of `ori` into the reference. If this object does not contain a reference an exception is generated.

NDVarDs::VARDS_ Class

Function	Returns	Arguments	Description
DefNfy	void	(VarDsNfyEnum <i>code</i>);	Default notification procedure for the VarDs class
GetValue	VarPtr	(void);	Sets the value of the data source by internally creating an edition object and committing the changes created through it.
QueryValue	void	(VarPtr <i>var</i>);	Returns the value associated to the variant data source in `var`.
SetValue	BoolEnum	(VarPtr <i>var</i>);	Sets the value of the data source by internally creating an edition object and committing the changes created through it.

NDVarDsEdit::VARSEEDIT_ Class

Function	Returns	Arguments	Description
SetValue	void	(VarPtr <i>var</i>);	Sets the value of the data source edition object.

NDVarLs::Class

Function	Returns	Arguments	Description
AddRow	BoolEnum	(VarLsIndexVal <i>index</i>);	Add a row at index `index' in the list by internally creating and committing an edition object.
Class	void	(void);	Adds a row at index `index' in the edition object.
DefNfy	void	(VarLsNfyEnum <i>code</i>);	Default notification procedure for the VarLs class.
GetCursorRow	VarLsIndexVal	(void);	Returns the current position of the cursor of the list.
GetMaxRowTitleStrLen	StrIVal	(void);	Returns the length of the longest string for a row title in the list, if the source can provide it.
GetMaxStrLen	StrIVal	(void);	Returns the length of the longest string for any row in the list, if the source can provide it.
GetMods	VarLs- ModsCPtr	(void);	Get a description of the last modifications made on the list through an edition object.
GetNumRows	VarLsIndexVal	(void);	Returns the number of rows in the list data source.
GetRowTitle	CStr	(VarLsIndexVal <i>index</i>);	Returns the title for the row `index' in the list, if any.
GetRowValue	VarPtr	(VarLsIndexVal <i>index</i>);	Returns the value of the row `index' in the list. T
GetTitle	CStr	(void);	Returns the title for the list, if any.
QueryRowValue	void	(VarLsIndexVal <i>index</i> , VarPtr <i>value</i>);	Returns the value of the row `index' in the list.
RemoveRow	BoolEnum	(VarLsIndexVal <i>index</i>);	Removes a row from the list by internally creating and committing an edition. Returns <code>BOOL_TRUE</code> if the internal edit succeeded, <code>BOOL_FALSE</code> in any other case.

Function	Returns	Arguments	Description
SetCursorRow	BoolEnum	(VarLsIndexVal <i>index</i>); ;	Sets the current list cursor to `row` by internally creating and committing an edition object.
SetNumRows	BoolEnum	(VarLsIndexVal <i>index</i>); ;	Sets the number of rows in the list internally creating and committing a edition object.
SetRowTitle	BoolEnum	(VarLsIndexVal <i>index</i> , CStr <i>title</i>);	Sets the title of the row identified by `index` to `title` by internally creating and committing an edition.
SetRowValue	BoolEnum	(VarLsIndexVal <i>index</i> , VarPtr <i>value</i>);	Sets the value corresponding to the row `index` of the edition object to `value`.
SetTitle	BoolEnum	(CStr <i>title</i>);	Sets the title of the list to `title` by internally creating and committing an edition.
StartRowEdit	VarLsEdit Ptr	(VarLsIndexVal <i>index</i>);	Open a edit (for modifying the `index` row).

NDVarLsEdit:: Class

Function	Returns	Arguments	Description
AddRow	void	(VarLsIndexVal <i>index</i>);	Adds a row at index `index` in the edition object.
RemoveRow	void	(VarLsIndexVal <i>index</i>);	Removes the row at index `index` in the edition object.
SetCursorRow	void	(VarLsIndexVal <i>index</i>);	Sets the current edition object cursor to `index`.
SetNumRows	void	(VarLsIndexVal <i>index</i>);	Sets the number of rows in an edition object to `index`.
SetRowTitle	void	(VarLsIndexVal <i>index</i> , CStr <i>title</i>);	Sets the title of the row `index` of the edition object to `title` the title will be copied onto the row `index`.
SetRowValue	void	(VarLsIndexVal <i>index</i> , VarPtr <i>value</i>);	Sets the value corresponding to the row `index` of the edition object to `value`.
SetTitle	void	(CStr <i>str</i>);	Sets the title of the list edition object to `str`.

NDVarTb:: Class

Function	Returns	Arguments	Description
AddColumn	void	(VarTbIndexVal <i>index</i>);	Add a column at index `index' to the edition object.
AddRow	BoolEnum	(VarTbIndexVal <i>index</i>);	Adds a row at index `index' to the table, by internally creating and committing a edition.
Class	RClasPtr	(void);	Returns a pointer to the resource class for VarTb.
GetCellValue	VarPtr	(VarTbIndexVal <i>row</i> , VarTbIndexVal <i>col</i>);	Returns the value of the cell at row `row' and column `col' in the list.
GetColumnName	CStr	(VarTbIndexVal <i>index</i>);(VarTbPtr <i>varTb</i> , VarTbIndexVal <i>index</i>);	Returns the title for the column `index' in the table, if any.
GetCursorColumn	VarTbIndexVal	(void);	Returns the current position of the column cursor
GetCursorRow	VarTbIndexVal	(void);	Returns the current position of the row cursor
GetMaxColStrLen	StrIVal	(VarTbIndexVal <i>col</i>);	Returns the length of the longest string for a column in the table (including the title), if the source can provide it.
GetMods	VarTb- ModsCPtr	(void);	Get a description of the last modifications committed on the table data source.
GetNumColumns	VarTbIndexVal	(void);	Returns the number of columns in the table.
GetNumRows	VarTbIndexVal	(void);	Returns the number of rows in the table.
GetRowTitle	CStr	(VarTbIndexVal <i>index</i>);	Returns the title for the row `index' in the table, if any.
GetTitle	CStr	(void);	Returns the title for the table, if any.
QueryCellValue	void	(VarTbIndexVal <i>row</i> , VarTbIndexVal <i>col</i> , VarPtr <i>value</i>);	Returns the value of the cell at row `row' and column `col' the list.
RemoveColumn	BoolEnum	VarTbIndexVal <i>index</i>);	Remove a column through a edition.

Function	Returns	Arguments	Description
RemoveRow	BoolEnum	(VarTbIndexVal <i>index</i>);	Removes the row at index `index` in the table.
SetCellValue	BoolEnum	(VarTbIndexVal <i>row</i> , VarTbIndexVal <i>col</i> , VarPtr <i>value</i>)	Sets the value corresponding to the cell identified by `row` and `col` of the edition object to `value`.
SetColumnName	BoolEnum	(VarTbIndexVal <i>col</i> , CStr <i>title</i>);	Sets the title of the column identified by `col` to `title` by internally creating and committing a edition
SetCursorColumn	BoolEnum	(VarTbIndexVal <i>index</i>);	Sets the table cursor column of the edition object to `index`
SetCursorRow	BoolEnum	(VarTbIndexVal <i>index</i>);	Sets the table cursor row in the edition object to `index`.
SetNumRowColumns	BoolEnum	(VarTbIndexVal <i>numRows</i> , VarTbIndexVal <i>numCols</i>);	Set up the number of rows and columns of the table by internally creating and committing a edition.
SetRowTitle	BoolEnum	(VarTbIndexVal <i>row</i> , CStr <i>title</i>);	Sets the title of the row identified by `row` to `title` by internally creating and committing a edition.
SetTitle	BoolEnum	(CStr <i>str</i>);	Sets the title of the table by internally creating and committing a edition. R
StartCellEdit	VarTbEditPtr	(VarTbIndexVal <i>row</i> , VarTbIndexVal <i>col</i>);	Open a edition for modifying the cell at (`row`, `col`).
StartEdit	void	(void);	Opens an edition on the whole table data source.
StartRowEdit	VarTbEditPtr	VarTbIndexVal <i>index</i>);	Open a edition (for modifying the `index` row).

NDVarTbEdit:: Class

Function	Returns	Arguments	Description
AddColumn	void	(VarTbIndexVal <i>index</i>);	Add a column by internally creating a Returns BOOL_TRUE if the internal e
AddRow	void	(VarTbIndexVal <i>index</i>);	Add a row through edition.
RemoveColumn	void	(VarTbIndexVal <i>index</i>);	Remove a column through a edition.
RemoveRow	void	(VarTbIndexVal <i>index</i>);	Removes the row at index `index' in th
SetCellValue	void	(VarTbIndexVal <i>row</i> , VarTbIndexVal <i>col</i> , VarPtr <i>value</i>);	Sets the value corresponding to the cel `col' of the edition object to `value'.
SetColumnName	void	(VarTbIndexVal <i>col</i> , CStr <i>title</i>);	Sets the title corresponding to the colu through a edition.
SetCursorColumn	void	(VarTbIndexVal <i>index</i>);	Sets the table cursor column of the edi
SetCursorRow	void	(VarTbIndexVal <i>index</i>);	Sets the table cursor row in the edition
SetNumRowColumns	void	(VarTbIndexVal <i>numRows</i> , VarTbIndex- Val <i>numCols</i>);	Sets up the number of rows and colum
SetRowTitle	void	(VarTbIndexVal <i>row</i> , CStr <i>title</i>);	Sets the title of the row identified by `r creating and committing a edition.
SetTitle	void	(CStr <i>str</i>);	Sets the title of the table through a edi

NDVStr:: Class

Function	Returns	Arguments	Description
Append	void	(VStrCPtr <i>vstring2</i>);	Appends one variable string to another.
AppendChar	void	(ChCode <i>chcode</i>);	Appends a character to a variable string.
AppendStr	void	(CStr <i>str</i>);	Appends a string to a variable string.
AppendStrSub	void	(CStr <i>subptr</i> , StrIVal <i>length</i>);	Appends a substring to a variable string.
ArrayAlloc	VStrArrayPtr	(void);	Allocates a VStr array.
Clear	void	(void);	Resets a variable string.
Cmp	CmpEnum	(VStrCPtr <i>vstring2</i>);	Compares two variable strings, ignoring case differences in the ASCII range,
CmpStr	CmpEnum	(CStr <i>string2</i>);	Compares a variable strings with another string by comparing the characters in each string by code value.
Copy	void	(VStrCPtr <i>source</i>);	Copies one variable string to another.
GetLen	StrIVal	(void);	Returns the length of a variable string.
GetStr	CStr	(void);	Returns the string equivalent of a variable string.
ICmp	CmpEnum	(VStrCPtr <i>vstring2</i>);	Compares two variable strings, ignoring case differences in the ASCII range,
ICmpStr	CmpEnum	(CStr <i>string2</i>);	Compares a variable strings with another string by comparing the characters in each string by code value.
QueryStrSub	void	(CStrPtr <i>stringptr</i> , StrIValPtr <i>lengthptr</i>);	Finds a substring within a variable string.
Set	void	(VStrCPtr <i>vstr2</i>);	Copies the contents of `vstr2' in the vstr
SetCtStr	void	(CtCPtr <i>codetype</i> , NatCStr <i>natstring</i>);	Replaces the contents of a variable string with a copy of an encoded native string.

Function	Returns	Arguments	Description
SetCtStrSub	void	(CtCPtr <i>ct</i> , NatCStr <i>str</i> , StrIVal <i>slen</i>);	Replaces the contents of the vstr by a copy of `str`.
SetNatStr	void	(NatCStr <i>natstring</i>);	Replaces the contents of a variable string with a copy of a native string.
SetNatStrSub	void	(NatCStr <i>natsubptr</i> , StrIVal <i>length</i>);	Replaces the contents of a variable string with a copy of a native substring.
SetRes	void	(CStr <i>class</i> , CStr <i>resource</i>);	Sets the given string resource as the contents of a variable string.
SetStr	void	(CStr <i>source</i>);	Replaces the contents of a variable string with a copy of a string.
SetStrSub	void	(CStr <i>subptr</i> , StrIVal <i>length</i>);	Replaces the contents of a variable string with a copy of a substring.
TruncAt	void	(StrIVal <i>pos</i>);	Truncates a variable string exactly to the length specified.
Truncate	void	(StrIVal <i>length</i>);	Truncates a variable string at or before the length specified.