

**MUI/NListtree\_mcc.h**

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## Chapter 1

# MUI/NListtree\_mcc.h

### 1.1 MUI/NListtree\_mcc.h

MUI/NListtree\_mcc.h

Structures

MUI_NListtree_TestPos_Result	MUI_NListtree_TreeNode
MUIP_NListtree_Close	MUIP_NListtree_CloseMessage
MUIP_NListtree_CompareMessage	MUIP_NListtree_ConstructMessage
MUIP_NListtree_Copy	MUIP_NListtree_DestructMessage
MUIP_NListtree_DisplayMessage	MUIP_NListtree_Exchange
MUIP_NListtree_FindName	MUIP_NListtree_FindNameMessage
MUIP_NListtree_GetEntry	MUIP_NListtree_GetNr
MUIP_NListtree_Insert	MUIP_NListtree_Move
MUIP_NListtree_MultiTest	MUIP_NListtree_MultiTestMessage
MUIP_NListtree_NextSelected	MUIP_NListtree_Open
MUIP_NListtree_OpenMessage	MUIP_NListtree_Redraw
MUIP_NListtree_Remove	MUIP_NListtree_Rename
MUIP_NListtree_Select	MUIP_NListtree_Sort
MUIP_NListtree_TestPos	

#defines

MUIA\_NListtree\_Active  
MUIA\_NListtree\_ActiveList  
MUIA\_NListtree\_AutoVisible  
MUIA\_NListtree\_CloseHook  
MUIA\_NListtree\_CompareHook  
MUIA\_NListtree\_ConstructHook  
MUIA\_NListtree\_DestructHook  
MUIA\_NListtree\_DisplayHook  
MUIA\_NListtree\_DoubleClick  
MUIA\_NListtree\_DragDropSort  
MUIA\_NListtree\_DupNodeName  
MUIA\_NListtree\_EmptyNodes  
MUIA\_NListtree\_FindNameHook  
MUIA\_NListtree\_Format  
MUIA\_NListtree\_MultiSelect

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```
MUIA_NListtree_MultiTestHook
MUIA_NListtree_OpenHook
MUIA_NListtree_Quiet
MUIA_NListtree_Title
MUIA_NListtree_TreeColumn
MUIC_NListtree
MUIM_NListtree_Close
MUIM_NListtree_Copy
MUIM_NListtree_Exchange
MUIM_NListtree_FindName
MUIM_NListtree_GetEntry
MUIM_NListtree_GetNr
MUIM_NListtree_Insert
MUIM_NListtree_Move
MUIM_NListtree_MultiTest
MUIM_NListtree_NextSelected
MUIM_NListtree_Open
MUIM_NListtree_Redraw
MUIM_NListtree_Remove
MUIM_NListtree_Rename
MUIM_NListtree_Select
MUIM_NListtree_Sort
MUIM_NListtree_TestPos
MUIV_NListtree_Active_First
MUIV_NListtree_Active_FirstVisible
MUIV_NListtree_Active_LastVisible
MUIV_NListtree_Active_Off
MUIV_NListtree_Active_Parent
MUIV_NListtree_ActiveList_Off
MUIV_NListtree_AutoVisible_Expand
MUIV_NListtree_AutoVisible_FirstOpen
MUIV_NListtree_AutoVisible_Normal
MUIV_NListtree_AutoVisible_Off
MUIV_NListtree_Close_ListNode_Active
MUIV_NListtree_Close_ListNode_Parent
MUIV_NListtree_Close_ListNode_Root
MUIV_NListtree_Close_TreeNode_Active
MUIV_NListtree_Close_TreeNode_All
MUIV_NListtree_Close_TreeNode_Head
MUIV_NListtree_Close_TreeNode_Tail
MUIV_NListtree_CompareHook_Head
MUIV_NListtree_CompareHook_LeavesBottom
MUIV_NListtree_CompareHook_LeavesMixed
MUIV_NListtree_CompareHook_LeavesTop
MUIV_NListtree_CompareHook_Tail
MUIV_NListtree_ConstructHook_Flag_AutoCreate
MUIV_NListtree_ConstructHook_String
MUIV_NListtree_Copy_DestListNode_Active
MUIV_NListtree_Copy_DestListNode_Root
MUIV_NListtree_Copy_DestTreeNode_Active
MUIV_NListtree_Copy_DestTreeNode_Head
MUIV_NListtree_Copy_DestTreeNode_Sorted
MUIV_NListtree_Copy_DestTreeNode_Tail
MUIV_NListtree_Copy_Flag_KeepStructure
MUIV_NListtree_Copy_SourceListNode_Active
MUIV_NListtree_Copy_SourceListNode_Root
MUIV_NListtree_Copy_SourceTreeNode_Active
```

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```
MUIV_NListtree_Copy_SourceTreeNode_Head
MUIV_NListtree_Copy_SourceTreeNode_Tail
MUIV_NListtree_DestructHook_String
MUIV_NListtree_DisplayHook_Default
MUIV_NListtree_DoubleClick_All
MUIV_NListtree_DoubleClick_Off
MUIV_NListtree_DoubleClick_Tree
MUIV_NListtree_Exchange_ListNode1_Active
MUIV_NListtree_Exchange_ListNode1_Root
MUIV_NListtree_Exchange_ListNode2_Active
MUIV_NListtree_Exchange_ListNode2_Root
MUIV_NListtree_Exchange_TreeNode1_Active
MUIV_NListtree_Exchange_TreeNode1_Head
MUIV_NListtree_Exchange_TreeNode1_Tail
MUIV_NListtree_Exchange_TreeNode2_Active
MUIV_NListtree_Exchange_TreeNode2_Down
MUIV_NListtree_Exchange_TreeNode2_Head
MUIV_NListtree_Exchange_TreeNode2_Tail
MUIV_NListtree_Exchange_TreeNode2_Up
MUIV_NListtree_FindName_Flag_Activate
MUIV_NListtree_FindName_Flag_FindPart
MUIV_NListtree_FindName_Flag_SameLevel
MUIV_NListtree_FindName_Flag_Visible
MUIV_NListtree_FindName_ListNode_Active
MUIV_NListtree_FindName_ListNode_Root
MUIV_NListtree_FindNameHook_CaseInsensitive
MUIV_NListtree_FindNameHook_CaseSensitive
MUIV_NListtree_FindNameHook_Part
MUIV_NListtree_FindNameHook_PartCaseInsensitive
MUIV_NListtree_GetEntry_Flag_SameLevel
MUIV_NListtree_GetEntry_Flag_Visible
MUIV_NListtree_GetEntry_ListNode_Active
MUIV_NListtree_GetEntry_ListNode_Root
MUIV_NListtree_GetEntry_Position_Active
MUIV_NListtree_GetEntry_Position_Head
MUIV_NListtree_GetEntry_Position_Next
MUIV_NListtree_GetEntry_Position_Parent
MUIV_NListtree_GetEntry_Position_Previous
MUIV_NListtree_GetEntry_Position_Tail
MUIV_NListtree_GetEntry_TreeNode_Active
MUIV_NListtree_GetNr_Flag_CountAll
MUIV_NListtree_GetNr_Flag_CountLevel
MUIV_NListtree_GetNr_Flag_CountList
MUIV_NListtree_GetNr_Flag_ListEmpty
MUIV_NListtree_GetNr_TreeNode_Active
MUIV_NListtree_Insert_Flag_Active
MUIV_NListtree_Insert_Flag_NextNode
MUIV_NListtree_Insert_ListNode_Active
MUIV_NListtree_Insert_ListNode_LastInserted
MUIV_NListtree_Insert_ListNode_Root
MUIV_NListtree_Insert_PrevNode_Active
MUIV_NListtree_Insert_PrevNode_Head
MUIV_NListtree_Insert_PrevNode_Sorted
MUIV_NListtree_Insert_PrevNode_Tail
MUIV_NListtree_Move_Flag_KeepStructure
MUIV_NListtree_Move_NewListNode_Active
MUIV_NListtree_Move_NewListNode_Root
```

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```
MUIV_NListtree_Move_NewTreeNode_Active
MUIV_NListtree_Move_NewTreeNode_Head
MUIV_NListtree_Move_NewTreeNode_Sorted
MUIV_NListtree_Move_NewTreeNode_Tail
MUIV_NListtree_Move_OldListNode_Active
MUIV_NListtree_Move_OldListNode_Root
MUIV_NListtree_Move_OldTreeNode_Active
MUIV_NListtree_Move_OldTreeNode_Head
MUIV_NListtree_Move_OldTreeNode_Tail
MUIV_NListtree_MultiSelect_Always
MUIV_NListtree_MultiSelect_Default
MUIV_NListtree_MultiSelect_Flag_AutoSelectChilds
MUIV_NListtree_MultiSelect_None
MUIV_NListtree_MultiSelect_Shifted
MUIV_NListtree_NextSelected_End
MUIV_NListtree_NextSelected_Start
MUIV_NListtree_Open_ListNode_Active
MUIV_NListtree_Open_ListNode_Parent
MUIV_NListtree_Open_ListNode_Root
MUIV_NListtree_Open_TreeNode_Active
MUIV_NListtree_Open_TreeNode_All
MUIV_NListtree_Open_TreeNode_Head
MUIV_NListtree_Open_TreeNode_Tail
MUIV_NListtree_Redraw_Active
MUIV_NListtree_Redraw_All
MUIV_NListtree_Redraw_Flag_Nr
MUIV_NListtree_Remove_ListNode_Active
MUIV_NListtree_Remove_ListNode_Root
MUIV_NListtree_Remove_TreeNode_Active
MUIV_NListtree_Remove_TreeNode_All
MUIV_NListtree_Remove_TreeNode_Head
MUIV_NListtree_Remove_TreeNode_Tail
MUIV_NListtree_Rename_Flag_NoRefresh
MUIV_NListtree_Rename_Flag_User
MUIV_NListtree_Rename_TreeNode_Active
MUIV_NListtree_Select_Active
MUIV_NListtree_Select_All
MUIV_NListtree_Select_Ask
MUIV_NListtree_Select_Flag_Force
MUIV_NListtree_Select_Off
MUIV_NListtree_Select_On
MUIV_NListtree_Select_Toggle
MUIV_NListtree_Select_Visible
MUIV_NListtree_Sort_Flag_RecursiveAll
MUIV_NListtree_Sort_Flag_RecursiveOpen
MUIV_NListtree_Sort_ListNode_Active
MUIV_NListtree_Sort_ListNode_Root
MUIV_NListtree_Sort_TreeNode_Active
MUIV_NListtree_TestPos_Result_Above
MUIV_NListtree_TestPos_Result_Below
MUIV_NListtree_TestPos_Result_None
MUIV_NListtree_TestPos_Result_Onto
MUIV_NListtree_TestPos_Result_Sorted
NListtreeObject
TNF_FROZEN
TNF_LIST
TNF_NOSIGN
```

---

```
TNF_OPEN
TNF_SELECTED
tpr_Flags
```

## 1.2 MUI/NListtree\_mcc.h

```
/*
**
**      MCC_NListtree (c)1999-2000 by Carsten Scholling
**
**      Class of the Magic User Interface.
**
**      NListtree_mcc_private.h
**
**
*/

/** Include stuff */

#ifndef NLISTTREE_MCC_H
#define NLISTTREE_MCC_H

#ifndef LIBRARIES_MUI_H
#include "libraries/mui.h"
#endif

/** MUI Defines */

#define MUIC_NListtree      "NListtree.mcc"
#define NListtreeObject    MUI_NewObject(MUIC_NListtree

/** Attributes */

#define MUIA_NListtree_Active           0xfec81201 // *** [. ←
    SG]
#define MUIA_NListtree_ActiveList      0xfec81202 // ***[.. ←
    G]
#define MUIA_NListtree_CloseHook       0xfec81203 // *** [IS ←
    .]
#define MUIA_NListtree_ConstructHook   0xfec81204 // *** [IS ←
    .]
#define MUIA_NListtree_DestructHook     0xfec81205 // *** [IS ←
    .]
#define MUIA_NListtree_DisplayHook     0xfec81206 // *** [IS ←
    .]
#define MUIA_NListtree_DoubleClick     0xfec81207 // *** [ ←
    ISG]
#define MUIA_NListtree_DragDropSort    0xfec81208 // *** [IS ←
    .]
```

```

#define MUIA_NListtree_DupNodeName          0xfec81209 // *** [IS ←
    .]
#define MUIA_NListtree_EmptyNodes          0xfec8120a // *** [IS ←
    .]
#define MUIA_NListtree_Format              0xfec8120b // *** [IS ←
    .]
#define MUIA_NListtree_OpenHook            0xfec8120c // *** [IS ←
    .]
#define MUIA_NListtree_Quiet                0xfec8120d // *** [.S ←
    .]
#define MUIA_NListtree_CompareHook          0xfec8120e // *** [IS ←
    .]
#define MUIA_NListtree_Title                0xfec8120f // *** [IS ←
    .]
#define MUIA_NListtree_TreeColumn          0xfec81210 // *** [ ←
    ISG]
#define MUIA_NListtree_AutoVisible          0xfec81211 // *** [ ←
    ISG]
#define MUIA_NListtree_FindNameHook        0xfec81212 // *** [IS ←
    .]
#define MUIA_NListtree_MultiSelect          0xfec81213 // *** [I ←
    ..]
#define MUIA_NListtree_MultiTestHook        0xfec81214 // *** [IS ←
    .]

/*** Special attribute values ***/

#define MUIV_NListtree_Active_Off            0
#define MUIV_NListtree_Active_Parent        -2
#define MUIV_NListtree_Active_First         -3
#define MUIV_NListtree_Active_FirstVisible -4
#define MUIV_NListtree_Active_LastVisible  -5

#define MUIV_NListtree_ActiveList_Off        0

#define MUIV_NListtree_ConstructHook_String -1
#define MUIV_NListtree_ConstructHook_Flag_AutoCreate (1<<15)

#define MUIV_NListtree_DestructHook_String  -1

#define MUIV_NListtree_DisplayHook_Default  -1

#define MUIV_NListtree_DoubleClick_Off      -1
#define MUIV_NListtree_DoubleClick_All     -2
#define MUIV_NListtree_DoubleClick_Tree    -3

#define MUIV_NListtree_CompareHook_Head     0
#define MUIV_NListtree_CompareHook_Tail    -1
#define MUIV_NListtree_CompareHook_LeavesTop -2
#define MUIV_NListtree_CompareHook_LeavesMixed -3
#define MUIV_NListtree_CompareHook_LeavesBottom -4

#define MUIV_NListtree_FindNameHook_CaseSensitive 0
#define MUIV_NListtree_FindNameHook_CaseInsensitive -1
#define MUIV_NListtree_FindNameHook_Part -2
#define MUIV_NListtree_FindNameHook_PartCaseInsensitive -3

```

```
#define MUIV_NListtree_AutoVisible_Off 0
#define MUIV_NListtree_AutoVisible_Normal 1
#define MUIV_NListtree_AutoVisible_FirstOpen 2
#define MUIV_NListtree_AutoVisible_Expand 3

#define MUIV_NListtree_MultiSelect_None 0
#define MUIV_NListtree_MultiSelect_Default 1
#define MUIV_NListtree_MultiSelect_Shifted 2
#define MUIV_NListtree_MultiSelect_Always 3

#define MUIV_NListtree_MultiSelect_Flag_AutoSelectChilds (1<<15)
```

```
/** Structures & Flags */
```

```
struct MUI_NListtree_TreeNode {
    struct MinNode tn_Node; // *** To make it a node.
    STRPTR tn_Name; // *** Simple name field.
    UWORD tn_Flags; // *** Used for the flags below.
    APTR tn_User; // *** Free for user data.
};
```

```
#define TNF_OPEN (1<<0)
#define TNF_LIST (1<<1)
#define TNF_FROZEN (1<<2)
#define TNF_NOSIGN (1<<3)
#define TNF_SELECTED (1<<4)
```

```
struct MUI_NListtree_TestPos_Result {
    struct MUI_NListtree_TreeNode *tpr_TreeNode;
    UWORD tpr_Type;
    LONG tpr_ListEntry;
    UWORD tpr_ListFlags;
    WORD tpr_Column;
};
```

```
#define tpr_Flags tpr_Type /* OBSOLETE */
```

```
/** Methods */
```

```
#define MUIM_NListtree_Open 0xfec81101
#define MUIM_NListtree_Close 0xfec81102
#define MUIM_NListtree_Insert 0xfec81103
#define MUIM_NListtree_Remove 0xfec81104
#define MUIM_NListtree_Exchange 0xfec81105
#define MUIM_NListtree_Move 0xfec81106
#define MUIM_NListtree_Rename 0xfec81107
#define MUIM_NListtree_FindName 0xfec81108
#define MUIM_NListtree_GetEntry 0xfec81109
```

```
#define MUIM_NListtree_GetNr 0xfec8110a
#define MUIM_NListtree_Sort 0xfec8110b
#define MUIM_NListtree_TestPos 0xfec8110c
#define MUIM_NListtree_Redraw 0xfec8110d
#define MUIM_NListtree_NextSelected 0xfec81110
#define MUIM_NListtree_MultiTest 0xfec81111
#define MUIM_NListtree_Select 0xfec81112
#define MUIM_NListtree_Copy 0xfec81113
```

```
/** Method structs **/
```

```
struct MUIP_NListtree_Open {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *ListNode;
    struct MUI_NListtree_TreeNode *TreeNode;
    ULONG Flags;
};
```

```
struct MUIP_NListtree_Close {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *ListNode;
    struct MUI_NListtree_TreeNode *TreeNode;
    ULONG Flags;
};
```

```
struct MUIP_NListtree_Insert {
    ULONG MethodID;
    STRPTR Name;
    APTR User;
    struct MUI_NListtree_TreeNode *ListNode;
    struct MUI_NListtree_TreeNode *PrevNode;
    ULONG Flags;
};
```

```
struct MUIP_NListtree_Remove {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *ListNode;
    struct MUI_NListtree_TreeNode *TreeNode;
    ULONG Flags;
};
```

```
struct MUIP_NListtree_FindName {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *ListNode;
    STRPTR Name;
    ULONG Flags;
};
```

```
struct MUIP_NListtree_GetEntry {
    ULONG MethodID;
```

```
    struct MUI_NListtree_TreeNode *Node;
    LONG Position;
    ULONG Flags;
};

struct MUIP_NListtree_GetNr {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *TreeNode;
    ULONG Flags;
};

struct MUIP_NListtree_Move {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *OldListNode;
    struct MUI_NListtree_TreeNode *OldTreeNode;
    struct MUI_NListtree_TreeNode *NewListNode;
    struct MUI_NListtree_TreeNode *NewTreeNode;
    ULONG Flags;
};

struct MUIP_NListtree_Exchange {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *ListNode1;
    struct MUI_NListtree_TreeNode *TreeNode1;
    struct MUI_NListtree_TreeNode *ListNode2;
    struct MUI_NListtree_TreeNode *TreeNode2;
    ULONG Flags;
};

struct MUIP_NListtree_Rename {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *TreeNode;
    STRPTR NewName;
    ULONG Flags;
};

struct MUIP_NListtree_Sort {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *ListNode;
    ULONG Flags;
};

struct MUIP_NListtree_TestPos {
    ULONG MethodID;
    LONG X;
    LONG Y;
    APTR Result;
};

struct MUIP_NListtree_Redraw {
```

---

```
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *TreeNode;
    ULONG Flags;
};

struct MUIP_NListtree_Select {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *TreeNode;
    LONG SelType,
        SelFlags,
        *State;
};

struct MUIP_NListtree_NextSelected {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode **TreeNode;
};

struct MUIP_NListtree_MultiTest {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *TreeNode;
    LONG SelType,
        SelFlags,
        CurrType;
};

struct MUIP_NListtree_Copy {
    ULONG MethodID;
    struct MUI_NListtree_TreeNode *SourceListNode;
    struct MUI_NListtree_TreeNode *SourceTreeNode;
    struct MUI_NListtree_TreeNode *DestListNode;
    struct MUI_NListtree_TreeNode *DestTreeNode;
    ULONG Flags;
};

/**/ Special method values ***/

#define MUIV_NListtree_Close_ListNode_Root 0
#define MUIV_NListtree_Close_ListNode_Parent -1
#define MUIV_NListtree_Close_ListNode_Active -2

#define MUIV_NListtree_Close_TreeNode_Head 0
#define MUIV_NListtree_Close_TreeNode_Tail -1
#define MUIV_NListtree_Close_TreeNode_Active -2
#define MUIV_NListtree_Close_TreeNode_All -3

#define MUIV_NListtree_Exchange_ListNode1_Root 0
#define MUIV_NListtree_Exchange_ListNode1_Active -2

#define MUIV_NListtree_Exchange_TreeNode1_Head 0
```

---

```
#define MUIV_NListtree_Exchange_TreeNode1_Tail -1
#define MUIV_NListtree_Exchange_TreeNode1_Active -2

#define MUIV_NListtree_Exchange_ListNode2_Root 0
#define MUIV_NListtree_Exchange_ListNode2_Active -2

#define MUIV_NListtree_Exchange_TreeNode2_Head 0
#define MUIV_NListtree_Exchange_TreeNode2_Tail -1
#define MUIV_NListtree_Exchange_TreeNode2_Active -2
#define MUIV_NListtree_Exchange_TreeNode2_Up -5
#define MUIV_NListtree_Exchange_TreeNode2_Down -6

#define MUIV_NListtree_FindName_ListNode_Root 0
#define MUIV_NListtree_FindName_ListNode_Active -2

#define MUIV_NListtree_FindName_Flag_SameLevel (1<<15)
#define MUIV_NListtree_FindName_Flag_Visible (1<<14)
#define MUIV_NListtree_FindName_Flag_Activate (1<<13)
#define MUIV_NListtree_FindName_Flag_FindPart (1<<12)

#define MUIV_NListtree_GetEntry_ListNode_Root 0
#define MUIV_NListtree_GetEntry_ListNode_Active -2
#define MUIV_NListtree_GetEntry_TreeNode_Active -3

#define MUIV_NListtree_GetEntry_Position_Head 0
#define MUIV_NListtree_GetEntry_Position_Tail -1
#define MUIV_NListtree_GetEntry_Position_Active -2
#define MUIV_NListtree_GetEntry_Position_Next -3
#define MUIV_NListtree_GetEntry_Position_Previous -4
#define MUIV_NListtree_GetEntry_Position_Parent -5

#define MUIV_NListtree_GetEntry_Flag_SameLevel (1<<15)
#define MUIV_NListtree_GetEntry_Flag_Visible (1<<14)

#define MUIV_NListtree_GetNr_TreeNode_Active -2

#define MUIV_NListtree_GetNr_Flag_ListEmpty (1<<12)
#define MUIV_NListtree_GetNr_Flag_CountList (1<<13)
#define MUIV_NListtree_GetNr_Flag_CountLevel (1<<14)
#define MUIV_NListtree_GetNr_Flag_CountAll (1<<15)

#define MUIV_NListtree_Insert_ListNode_Root 0
#define MUIV_NListtree_Insert_ListNode_Active -2
#define MUIV_NListtree_Insert_ListNode_LastInserted -3

#define MUIV_NListtree_Insert_PrevNode_Head 0
#define MUIV_NListtree_Insert_PrevNode_Tail -1
#define MUIV_NListtree_Insert_PrevNode_Active -2
#define MUIV_NListtree_Insert_PrevNode_Sorted -4

#define MUIV_NListtree_Insert_Flag_Active (1<<13)
#define MUIV_NListtree_Insert_Flag_NextNode (1<<12)
```

---

```
#define MUIV_NListtree_Move_OldListNode_Root 0
#define MUIV_NListtree_Move_OldListNode_Active -2

#define MUIV_NListtree_Move_OldTreeNode_Head 0
#define MUIV_NListtree_Move_OldTreeNode_Tail -1
#define MUIV_NListtree_Move_OldTreeNode_Active -2

#define MUIV_NListtree_Move_NewListNode_Root 0
#define MUIV_NListtree_Move_NewListNode_Active -2

#define MUIV_NListtree_Move_NewTreeNode_Head 0
#define MUIV_NListtree_Move_NewTreeNode_Tail -1
#define MUIV_NListtree_Move_NewTreeNode_Active -2
#define MUIV_NListtree_Move_NewTreeNode_Sorted -4

#define MUIV_NListtree_Move_Flag_KeepStructure (1<<13)

#define MUIV_NListtree_Open_ListNode_Root 0
#define MUIV_NListtree_Open_ListNode_Parent -1
#define MUIV_NListtree_Open_ListNode_Active -2
#define MUIV_NListtree_Open_TreeNode_Head 0
#define MUIV_NListtree_Open_TreeNode_Tail -1
#define MUIV_NListtree_Open_TreeNode_Active -2
#define MUIV_NListtree_Open_TreeNode_All -3

#define MUIV_NListtree_Remove_ListNode_Root 0
#define MUIV_NListtree_Remove_ListNode_Active -2
#define MUIV_NListtree_Remove_TreeNode_Head 0
#define MUIV_NListtree_Remove_TreeNode_Tail -1
#define MUIV_NListtree_Remove_TreeNode_Active -2
#define MUIV_NListtree_Remove_TreeNode_All -3

#define MUIV_NListtree_Rename_TreeNode_Active -2

#define MUIV_NListtree_Rename_Flag_User (1<<8)
#define MUIV_NListtree_Rename_Flag_NoRefresh (1<<9)

#define MUIV_NListtree_Sort_ListNode_Root 0
#define MUIV_NListtree_Sort_ListNode_Active -2
#define MUIV_NListtree_Sort_TreeNode_Active -3

#define MUIV_NListtree_Sort_Flag_RecursiveOpen (1<<13)
#define MUIV_NListtree_Sort_Flag_RecursiveAll (1<<12)

#define MUIV_NListtree_TestPos_Result_None 0
#define MUIV_NListtree_TestPos_Result_Above 1
#define MUIV_NListtree_TestPos_Result_Below 2
#define MUIV_NListtree_TestPos_Result_Onto 3
#define MUIV_NListtree_TestPos_Result_Sorted 4
```

---

```
#define MUIV_NListtree_Redraw_Active -1
#define MUIV_NListtree_Redraw_All -2

#define MUIV_NListtree_Redraw_Flag_Nr (1<<15)

#define MUIV_NListtree_Select_Active -1
#define MUIV_NListtree_Select_All -2
#define MUIV_NListtree_Select_Visible -3

#define MUIV_NListtree_Select_Off 0
#define MUIV_NListtree_Select_On 1
#define MUIV_NListtree_Select_Toggle 2
#define MUIV_NListtree_Select_Ask 3

#define MUIV_NListtree_Select_Flag_Force (1<<15)

#define MUIV_NListtree_NextSelected_Start -1
#define MUIV_NListtree_NextSelected_End -1

#define MUIV_NListtree_Copy_SourceListNode_Root 0
#define MUIV_NListtree_Copy_SourceListNode_Active -2

#define MUIV_NListtree_Copy_SourceTreeNode_Head 0
#define MUIV_NListtree_Copy_SourceTreeNode_Tail -1
#define MUIV_NListtree_Copy_SourceTreeNode_Active -2

#define MUIV_NListtree_Copy_DestListNode_Root 0
#define MUIV_NListtree_Copy_DestListNode_Active -2

#define MUIV_NListtree_Copy_DestTreeNode_Head 0
#define MUIV_NListtree_Copy_DestTreeNode_Tail -1
#define MUIV_NListtree_Copy_DestTreeNode_Active -2
#define MUIV_NListtree_Copy_DestTreeNode_Sorted -4

#define MUIV_NListtree_Copy_Flag_KeepStructure (1<<13)

/** Hook message structs */

struct MUIP_NListtree_CloseMessage
{
    ULONG HookID;
    struct MUI_NListtree_TreeNode *TreeNode;
};

struct MUIP_NListtree_CompareMessage
{
    ULONG HookID;
    struct MUI_NListtree_TreeNode *TreeNode1;
    struct MUI_NListtree_TreeNode *TreeNode2;
    LONG SortType;
};
```

---

```
struct MUIP_NListtree_ConstructMessage
{
    ULONG HookID;
    STRPTR Name;
    APTR UserData;
    APTR MemPool;
    ULONG Flags;
};

struct MUIP_NListtree_DestructMessage
{
    ULONG HookID;
    STRPTR Name;
    APTR UserData;
    APTR MemPool;
    ULONG Flags;
};

struct MUIP_NListtree_DisplayMessage
{
    ULONG HookID;
    struct MUI_NListtree_TreeNode *TreeNode;
    LONG EntryPos;
    STRPTR *Array;
};

struct MUIP_NListtree_FindNameMessage
{
    ULONG HookID;
    STRPTR Name;
    STRPTR NodeName;
    APTR UserData;
    ULONG Flags;
};

struct MUIP_NListtree_OpenMessage
{
    ULONG HookID;
    struct MUI_NListtree_TreeNode *TreeNode;
};

struct MUIP_NListtree_MultiTestMessage
{
    ULONG HookID;
    struct MUI_NListtree_TreeNode *TreeNode;
    LONG SelType,
        SelFlags,
        CurrType;
};
```

---

```
#endif /* NLISTTREE_MCC_H */
```

---