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February 2, 2007

**VIA HAND DELIVERY**

Mr. Jay Jurata  
c/o Mr. Brent Green  
**DUNCAN, GREEN, BROWN & LANGNESS**  
400 Locust Street, Suite 380  
Des Moines, IA 50309-2332

Re: Comes v. Microsoft - Andrew Schulman

Dear Mr. Jurata:

We are enclosing some notes of Andrew Schulman (Schulman\_IA 0699-0768).

Very truly yours,

**ZELLE, HOFMANN, VOELBEL, MASON & GETTE LLP**

*Jim Reece*

James S. Reece

JSR:kv

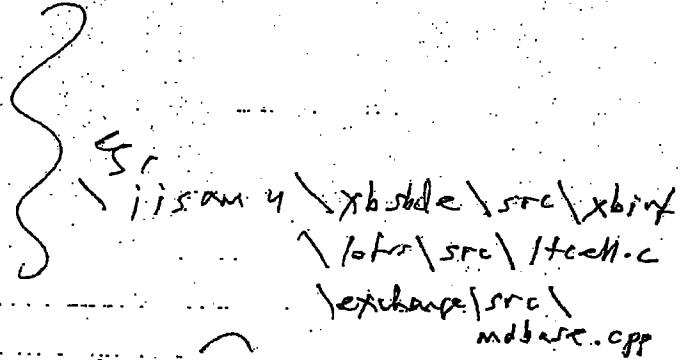
cc: Sharon Nelles (w/o enclosures)  
Edward Remsburg (w/o enclosures)  
Roxanne Barton Conlin (w/o enclosures)  
Richard Hagstrom (w/enclosures)

①

MISSING

all ISAM JET, including import from:

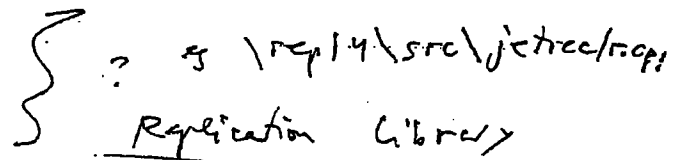
- Excel
- Exchange
- Lotus
- Paradox
- TEXT
- XBASE



MSJET 3.5  
eg \\jet3\src\fold\exp.c

Set Briefcase Reconciler

- MSRC4R40
- MSFRAN40
- REPL4



check

Some MSOEXT still missing,  
eg \\ns9\nsoxt\nsoxt.cpp

MAC skip-ins & support:  
COMUI, NNTP, SMTP,

check

Some CDDSYS re\_SEO  
eg \\cddp\src\seo\ss-nttpccrly.cpp

Office Web Components

NVC (Windows Visual Component) 9  
eg \\chart\Whisper\ren\NCC\client\AutomationBinding.cpp

source for .NET Framework, eg  
for MSCOR5VF, MSCORIE, etc.

- eg \\com99\src\ms\mscorce\mscorce.cpp,
- \\com99\src\jit\is\gentree.cpp
- \\com99\src\va\interop\lib.cpp [in MS EB]

(4)

MDAC - MS Data Access Components  
used in ODBC, DLU, etc.

g, \msdctutil\adodbc\adodb\adodb.cpp  
\msdctutil\adodbc\source\fileconn.c

MSNDB - do KMC LETAG

6 CDS 10/25 + 10/20  
+ 2 CDS 10/17

re-wrote  
all PDBs,  
re-run  
strings,  
but may  
resplit  
log along  
; ; & \$  
etc.  
+ then put  
back new  
PDB

MATCHSAC

.c  
.cpp  
.xxx } pdb-path.log  
  
.obj }  
.ob } ignore extension

NO, OLD NAMES  
from PDBs

- ① reload all .ASM, .CS + .PDB ?
- ② rescan all PDBs on disk for  $\backslash \backslash$ 
  - ②A split dup ; : \* etc.
- ③ generate filenames list
- ④ dir all .epf, .e, .c, .x, .asm, .cs
- ⑤ missing ?

CHECK ALL IN IE/WAP/M506/MSN

NEW UNDOC FROM MSO?

(1)

get from MSO5EXT??  
more newer - ~~MSO~~ ... CH?

new  
MSO5

↑  
MSORUN  
PUSER

~~ISDirect3DRM3~~  
IDirect3DRM3 ; != DRM; Direct 3D Retained Mode  
IDirect3DRM4 MeshBuilder3 ; one mention?  
IDirect3DRM5

IEVENT Is Callable ; part of SEO??  
" VFI ; planned for Exch Serv 2007 SDK  
Type Sinks as "CDOEX"?

- Sources
- Source Types
- Sink Notify Disp
- Rule Engine
- Route
- Property Bag
- ...
- Binding Manager
- Lock
- Com Cat
- Source
- Binding
- Type

PKR?

NEW UNDOC FROM MSO?

(2)

Where  
SEO  
impl.?

CDOSYS?  
imsinst?

Planned  
for  
2007 SDK  
CDOEX  
noc

SEO.IDL  
Platform SDK?

- ISEO ROLTS
- " Reg Dictionary
- Inst Object
- EventSink
- Dispatcher
- Dictionary Item
- Binding Auk Engine
- Binding Converter
- Dictionary

- ; SEOLib
- ; Server Extension Objects
- ; See MS Employee Mag "first impl many years ago"
- also maybe ISEO... or CSEO...
- Meta Dictionary
- Mem Dictionary
- Live Dictionary
- Reg Dictionary

IDSQUERY - doc as OSQUERY? check all "I, O, I"

IImn Account Manager - deprecated? CDOSYS, MSEOACCT, OUTLIB

IUser Identity Manager - deprecated? MSOACCT, OUTACCT

IAdmin Index Server - ? MSO, CIODM

IMCIS Message Filter - CDOEX 2007 doc!

Other notes:

- MARS
- PSETID\_
- Doc Objects
- EMSO\*

NEW UNDOC FROM MSO?

③

IITStorage used by CHM doc??

I PersistTextstream VS 6, 035, 11.9 ~~2~~ doc?!

WSPP re MAPI

Active Directory Schema Attributes A-L-6-30-06.ppt

Exchange MAPI address book

mspi ID 32791

Entry Display Name

32839

"ASDAS"

~~0x3A25001F~~

PSETID - Appoint

0x2002

8197

PSETID - address

0x2007

8196

PSETID - Contact

0x2008

~~8195~~ 8200



countdoc.srt  
Interfaces found in MS Office and in Windows  
Not found in non-MS software that was inspected

sorted by likelihood that not documented  
based on XP source code ... \public\...

4588 1 31 IPathname  
4464 5 31 ~~IADSPathname~~  
2465 4 17 ~~IDObjectPicker~~  
2058 2 14 ~~IDirectorySearch~~  
2030 4 14 ~~IADContainer~~  
1529 10 11 ~~IInternetSecurityManager~~  
1168 3 8 ~~ITextStoreACPServices~~  
1168 3 8 ~~IDataInitialize~~  
1168 3 8 ~~IDBPromptInitialize~~  
1160 4 8 ~~ITaskScheduler~~  
1144 6 8 ~~IPersistFolder2~~  
1022 3 7 ~~ITfThreadMgrEventsSink~~  
1022 3 7 ITfThreadFocusSink  
1022 3 7 ITfTextLayoutSink  
1022 3 7 ITfTextInputProcessor  
1022 3 7 ITfTextEditsSink  
1022 3 7 ITfStatusSink  
1022 3 7 ITfSourceSingle  
1022 3 7 ITfRangeACP  
1022 3 7 ITfQueryEmbedded  
1022 3 7 ITfPreservedKeyNotifiesSink  
1022 3 7 ITfPersistentPropertyLoaderACP  
1022 3 7 ITfMouseTrackerACP  
1022 3 7 ~~ITfMessagePump~~  
1022 3 7 ITfLanguageProfileNotifiesSink  
1022 3 7 ITfKeystrokeMgr  
1022 3 7 ITfKeyTraceEventsSink  
1022 3 7 ITfKeyEventSink  
1022 3 7 ITfInsertAtSelection  
1022 3 7 ITfEditTransactionSink  
1022 3 7 ITfEditRecord  
1022 3 7 ITfDisplayAttributeProvider  
1022 3 7 ITfDisplayAttributeNotifiesSink  
1022 3 7 ITfDisplayAttributeMgr  
1022 3 7 ITfDisplayAttributeInfo  
1022 3 7 ITfCreatePropertyStore  
1022 3 7 ITfContextOwnerServices  
1022 3 7 ITfContextOwnerCompositionSink  
1022 3 7 ITfContextOwnerCompositionServices  
1022 3 7 ITfContextKeyEventSink  
1022 3 7 ITfContextComposition  
1022 3 7 ITfConfigureSystemKeystrokeFeed  
1022 3 7 ITfCompositionSink  
1022 3 7 ITfCompartmentEventsSink  
1022 3 7 ITfCleanupContextSink  
1022 3 7 ITfCleanupContextDurationSink  
1022 3 7 ITfCategoryMgr  
1022 3 7 ITfActiveLanguageProfileNotifiesSink  
1022 3 7 ~~IEnumTfPropertyValue~~  
1022 3 7 IEnumTfLanguageProfiles  
1022 3 7 IEnumTfDisplayAttributeInfo  
1022 3 7 IEnumTfContexts  
1022 3 7 ~~IEnumTfCompositionView~~  
1015 4 7 ~~ITfReadOnlyProperty~~  
1015 4 7 ITfRangeBackup  
1015 4 7 ITfPropertyStore  
1015 4 7 ITfMouseSink

countdoc.srt

1015 4 7 ITfFunctionProvider  
 1015 4 7 ITfEditSession  
 1015 4 7 ITfDocumentMgr  
 1015 4 7 ITfContextView  
 1015 4 7 ITfCompartmentMgr  
 1015 4 7 IEnumTfRanges  
 1015 4 7 IEnumTfProperties  
 1015 4 7 IEnumTfFunctionProviders  
 1015 4 7 IEnumTfDocumentMgrs  
 1015 4 7 IEnumTfContextViews  
 1001 6 7 ITfSource  
 1001 6 7 ITfCompositionView  
 994 7 7 ~~ITfThreadMgr~~  
 987 8 7 ITfMouseTracker  
 980 9 7 ITfInputProcessorProfiles  
 973 10 7 ITfProperty  
 973 10 7 ITfFunction  
 973 10 7 ITfCompartment  
 959 12 7 ITfContextOwner  
 959 12 7 ITfComposition  
 924 17 7 ~~ITfRange~~  
 917 18 7 ~~IWaiter~~  
 833 30 7 ITfContext  
 816 13 6 ~~IDXTransform~~  
 725 4 5 ~~ITimersink~~  
 715 6 5 ITfLangBarMgr  
 715 6 5 ~~IDXTransformFactory~~  
 705 8 5 IDXSurfaceFactory  
 693 72 9 ~~ITask~~  
 595 30 5 IDXSurface  
 584 3 4 ~~IProvideTaskPage~~  
 584 3 4 ~~IAutoComplete2~~  
 584 3 4 ~~IAccPropServices~~  
 580 4 4 ~~ITimerservice~~  
 580 4 4 ~~IDXARGReadWritePtr~~  
 576 5 4 IDirect3DRM3  
 576 5 4 IDXBaseObject  
 556 10 4 ~~IEmptyVolumeCache~~  
 444 1 3 IEventIsCacheable  
 444 1 3 ~~ICommonQuery~~  
 438 3 3 ~~IWordBreaker~~  
 438 3 3 ~~IMimeBody~~  
 438 3 3 ~~IEmptyVolumeCache2~~  
 438 3 3 IDsQuery  
 435 4 3 ~~IDXSurfacePick~~  
 429 6 3 ~~ITmAccountManager~~  
 429 6 3 IDirect3DRMMeshBuilder3  
 420 9 3 IDXETface  
 296 1 2 ISEORouter  
 296 1 2 ISEORegDictionary  
 296 1 2 ISEOInitObject  
 296 1 2 ISEOEventsink  
 296 1 2 ISEODispatcher  
 296 1 2 ISEODictionaryItem  
 296 1 2 ISEOBindingRuleEngine  
 296 1 2 ISEOBindingConverter  
 296 1 2 IMCISMessageFilter  
 296 1 2 IEventUtil  
 296 1 2 IEventTypesinks  
 296 1 2 IEventSources  
 296 1 2 IEventSourceTypes  
 296 1 2 IEventSinkNotifyDisp  
 296 1 2 IEventRuleEngine

D3D retained Mesh  
 some doc?  
 Planned for Exch Server 2007 SDK?

not IDSubjectPicker? doc as DsQuery

depreciated

some mentions?

also CWEX

countdoc.srt

296 1 2 IEventRouter  
296 1 2 IEventPropertyBag  
296 1 2 IEventPersistBinding  
296 1 2 IEventNotifyBindingChangedDisp  
296 1 2 IEventManager  
296 1 2 IEventLock  
296 1 2 IEventDispatcherChain  
296 1 2 IEventDeliveryOptions  
296 1 2 IEventDatabasePlugin  
296 1 2 IEventDatabaseManager  
296 1 2 IEventCreateOptions  
296 1 2 IEventComCat  
296 1 2 IEventBindingManagerCopier  
294 2 2 ~~IUserIdentityManager~~  
294 2 2 ~~ISpVoice~~  
294 2 2 ISEODictionary  
294 2 2 IEventTypes  
294 2 2 IEventSourceType  
294 2 2 IEventSinkNotify  
294 2 2 IEventNotifyBindingChange  
294 2 2 IEventDispatcher  
294 2 2 IEventBindingManager  
292 3 2 ~~IXMLParser~~  
292 3 2 ~~IXMLNodeFactory~~  
292 3 2 ~~IStemmer~~  
292 3 2 ~~ISpRecognizer~~  
292 3 2 ~~IDataConvert~~  
290 4 2 IEventType  
290 4 2 IEventBinding  
290 4 2 ~~IDoHostShowUI~~  
290 4 2 ~~IDXTaskManager~~  
290 4 2 ~~IDXSurfaceModifier~~  
286 6 2 IEventSource  
284 7 2 ~~IDXArgbReadPtr~~  
280 9 2 ~~IDataSource~~  
162 122 6 IDirect3DRM  
148 1 1 ~~ITextServices~~  
147 2 1 ~~IXSLTemplate~~  
147 2 1 IAdminIndexServer  
146 3 1 ~~IXMLNodeSource~~  
146 3 1 ~~IProfferservice~~  
144 5 1 ~~IXMLDOMParseError~~  
~~0-149 22 IADs~~

*SEO*

*deprecated*

*SEO*

*SEO*

*one mention*

*undoc?*

Schulman\_IA 0708  
Highly Confidential

# I MediaStream Monitor

iam\_maybe.log

<http://directshownet.sourceforge.net/about.html>

"Interfaces included in the library but not yet tested (see the docs for what this means)" -- list presumably from IDL?

Then filter out those in MS alphabetical list of Directshow (9.0) interfaces (<http://msdn2.microsoft.com/en-us/library/ms778960.aspx>)

and list of deprecated interfaces (<http://msdn2.microsoft.com/en-us/library/ms778960.aspx>):

~~IAMAnalogVideoEncoder -- deprec~~  
~~IBPCSatelliteTuner -- deprec~~  
~~ICaptureGraphBuilder -- deprec~~  
~~IAMDevMemoryAllocator -- deprec~~  
~~IAMDevMemoryControl -- deprec~~  
~~IDrawVideoImage -- deprec~~  
~~IAMovieSetup -- deprec~~  
~~IDvdControl -- deprec~~  
~~IAMPhysicalPinInfo -- deprec~~  
~~IDvdInfo -- deprec~~  
~~IAMTVAudioNotification -- deprec~~  
~~IEnumRegFilters -- deprec~~  
~~IFilterMapper -- deprec~~

see if deprec still  
used eg in WMP 10 or 11?

maybe undoc, not in alphabetical list:

make sure hits not in  
Directshow src w/in WMP 8 dir?

~~IAMCollection~~  
~~IAMPlaylist~~  
~~IAMPlaylistItem~~ - C:\WMP\Playlist\Edm?  
~~IWireBuild~~  
~~IAnalogRadioTuningSpace~~  
~~IAnalogRadioTuningSpace2~~  
~~IAudioData~~  
~~IAudioStreamSample~~  
~~IAuxINTuningSpace2~~  
~~IBDA\_NetworkProvider~~  
~~IBDA\_NullTransform~~  
~~IBDA\_PinControl~~  
~~IBDA\_TIF\_REGISTRATION~~  
~~IBDA\_VoidTransform~~  
~~IBaseVideoMixer~~  
IDMOQualityControl -- "DMO" is DirectX Media Object (see IDMOWrapperFilter)  
~~IDXEffect~~  
~~IDxtAlphasetter~~  
~~IDxtCompositor~~  
~~IDxtPeg~~  
~~IDxtKey~~  
~~IEnumGuideDataProperties~~  
~~IEnumTunerRequests~~  
~~IEvalRat~~  
~~IFilterInfo~~  
~~IFindCompressorCB~~  
IFullScreenVideo -- but IFullScreenVideoEx is doc - 1 file?  
~~IGrCache~~  
~~IGuideData~~  
~~IGuideDataEvent~~  
~~IGuideDataLoader~~  
~~IGuideDataProperty~~  
~~IMPEG2\_TIF\_CONTROL~~ -- but e.g. Impeg2PIDMap is doc  
~~IMediaTypeInfo~~ -- other IMedia are doc, e.g. IMediaFilter  
~~IMemoryData~~  
~~IPinInfo~~ -- but e.g. IPin is doc

iam\_maybe.log  
~~IReferenceClock2 -- but IReferenceClock is doc~~  
~~IRegFilterInfo~~  
~~IRegisterTuner~~  
~~IResize~~  
~~IScanningTuner~~  
~~ISpecifyParticularPages~~  
~~ITrunkRequestInfo~~  
IVPVBIConfig -- many other IVP are doc  
IVPVBINotify  
IVideoEncoder  
IXDStoRat

iam.log

~~IAMAnalogVideoDecoder 1 4697~~  
~~IAMCameraControl 1 4697~~  
~~IAMClockAdjust 1 3900~~  
~~IAMClockSlave 1 1176~~  
~~IAMCrossbar 1 4697~~  
~~IAMFilterGraphCallback 1 1073~~ ✓  
~~IAMFilterMscFlags 2 250,1176~~  
IAMGraphBuildCB PRIV 1 1073  
IAMGraphStreams 1 250  
IAMLine2IDecoder 2 251;1032  
IAMNetShowExProps 1 1073  
~~IAMOpenProgress 1 1073~~  
~~IAMPlaylist 1 1073~~  
IAMPushSource 1 250  
IAMRebuild 6 2696;3389;3425;5273;5404;5713 NOT  
IAMSeekingEX 1 1073 NOT  
IAMStavClock 1 1176 NOT  
IAMStreamConfig 2 569;4697  
IAMStreamControl 5 558;563;568;579;583  
IAMStreamSelect 3 1062;1073;1176  
IAMTVAudio 1 4697  
IAMTVTuner 1 4697  
IAMVfwCaptureDialogs 3 550;552;569  
IAMVideoProcAMP 1 1366  
IAMVideoProcAMP 1 4697  
IAMMovieSetup 2 3881;3889

IAMGraphBuildCB; Priv Coll back; DOC  
Selected Files  
Created A/K/T

look for all vntested  
from  
directshow.net, source forp.net

SH SetTimer QueueTimer

NT vets differs slightly

Where  
impe ??

- I- CreateTimer QueueTimer
- II- SetTimer QueueTimer

Where at? DOC (7 params)

r firm 1998 - reworked from NT-specific code

IESet\* and NTSet\* v/in tpstimer.cpp

timerqueuetimer.cpp cWin32TimerQueueTimer

param type WAITOR TIMER CALLBACK

WING code?

Wh CreateTimer QueueTimer

- whkird 32.4.

le - ChangeTimer QueueTimer

SeusSetTimer QueueTimer

tan.cxx

dest.cxx

Likely undocumented APIs that should have been documented as part of the settlement.

Used by shdocvw.dll :

shlwapi.13	RegisterDefaultAcceptHeaders
shlwapi.163	IUnknown_QueryStatus
shlwapi.164	IUnknown_Exec
shlwapi.165	SHSetWindowBits - trivial?
shlwapi.167	SHSetParentHwnd
shlwapi.171	SHIsSameObject
shlwapi.173	IUnknown_SetOwner
shlwapi.175	IUnknown_GetClassID
shlwapi.178	SHPropagateMessage - not called by IE?
shlwapi.181	SHEnableMenuItem
shlwapi.182	SHCheckMenuItem
shlwapi.186	SHSimulateDrop
shlwapi.187	SHLoadFromPropertyBag
shlwapi.188	IUnknown_TranslateAcceleratorOCS
shlwapi.189	IUnknown_OnFocusOCS
shlwapi.192	SHGetMenuFromID
shlwapi.193	SHGetCurColorRes
shlwapi.195	SHIsExpandableFolder
shlwapi.197	SHFillRectClr
shlwapi.198	SHSearchMapInt
shlwapi.212	IStream_Write
shlwapi.216	SHAnsiToUnicodeCP
shlwapi.218	SHUnicodeToAnsiCP
shlwapi.220	SHSetDefaultDialogFont
shlwapi.221	SHRemoveDefaultDialogFont
shlwapi.222	SHGlobalCounterCreate
shlwapi.223	SHGlobalCounterGetValue
shlwapi.236	SHPinDllOfCLSID
shlwapi.240	SHDefWindowProc
shlwapi.248	Stopwatch_MarkSameFrameStart
shlwapi.249	Stopwatch_MarkJavaStop
shlwapi.260	SHQueueUserWorkItem - used; complex impc; WINE stub; but XP + late VARS
shlwapi.263	SHSetTimerQueueTimer
shlwapi.266	SHRestrictionLookup
shlwapi.267	SHWeakQueryInterface
shlwapi.268	SHWeakReleaseInterface
shlwapi.269	GUIDFromStringA
shlwapi.279	SHInvokeDefaultCommand
shlwapi.281	SHPackDispParams
shlwapi.282	SHPackDispParamsV
shlwapi.283	IConnectionPoint_InvokeWithCancel
shlwapi.284	IConnectionPoint_SimpleInvoke
shlwapi.286	IUnknown_CPContainerInvokeParam
shlwapi.287	IUnknown_CPContainerOnChanged
shlwapi.316	IShellFolder_GetDisplayNameOf
shlwapi.342	SHInterlockedCompareExchange
shlwapi.355	IUnknown_EnableModeless
shlwapi.376	MLGetUILanguage
shlwapi.382	ZoneComputePaneSize (?) - if see in IE src - IE7 src
shlwapi.383	ZoneConfigureW
shlwapi.384	SHRestrictedMessageBox
shlwapi.394	SHChangeNotifyWrap - SHChangeNotify in shell32 loc for sc/henet
shlwapi.425	DeleteMenuWrap
shlwapi.426	DestroyMenuWrap
shlwapi.427	TrackPopupMenuWrap
shlwapi.428	TrackPopupMenuExWrap
shlwapi.431	MLClearMLHInstance
shlwapi.436	CLSIDFromStringWrap

Get sense of complexity from WINE ordinal.c



ord\_name

shlwapi.458	GetLongPathNameWrapA
shlwapi.461	SHGetAppCompatFlags <i>- don't see impl</i>
shlwapi.467	SHRunIndirectRegClientCommand
shlwapi.471	SHCreatePropertyBagOnRegKey ?
shlwapi.476	SHGetObjectCompatFlags
shlwapi.477	SHCreatePropertyBagOnMemory ? <i>Account</i>
shlwapi.479	IUnknown_UIActivateID
shlwapi.484	IUnknown_QueryServiceExec
shlwapi.491	SHGetShellKey
shlwapi.496	SHPropertyBag_ReadLONG
shlwapi.505	SHPropertyBag_ReadGUID
shlwapi.506	SHPropertyBag_WriteGUID
shlwapi.507	SHPropertyBag_ReadWORD
shlwapi.509	IUnknown_OnFocusChangeIS
shlwapi.520	SHPropertyBag_ReadBSTR
shlwapi.534	SHPropertyBag_ReadBOOL
shlwapi.538	IUnknown_QueryServiceForWebBrowserApp
shlwapi.539	IUnknown_ShowBrowserBar
shlwapi.540	SHInvokeCommandOnContextMenu ?
shlwapi.542	GetUIVersion
shlwapi.549	SHCoCreateInstanceAC
shlwapi.551	IShellFolder_CompareIDs ?

*a/s  
check  
priv.h  
(w/o "SH")*

Used by mshtml.dll:

comctl32.383	DoReaderMode <i>- doc</i>
shlwapi.13	RegisterDefaultAcceptHeaders
shlwapi.163	IUnknown_QueryStatus
shlwapi.164	IUnknown_Exec
shlwapi.281	SHPackDispParamsV
shlwapi.376	MLGetUILanguage
shlwapi.413	SHGetMachineInfo
shlwapi.425	DeleteMenuWrap
shlwapi.426	DestroyMenuWrap
shlwapi.427	TrackPopupMenuWrap
shlwapi.435	CLSIDFromProgIDWrap
shlwapi.436	CLSIDFromStringWrap

Used by iexplore.exe, and by msoe.dll:

shlwapi.376	MLGetUILanguage
-------------	-----------------

exports!

tmp.tmp  
Undoc shlwapi ordinal-only exports used by mshtml, shdocvw, iexplore, msoc, msieftp, msxml, iedk, sorted by # of modules that use

13 shlwapi.476 SHGetObjectCompatFlags appwiz.cpl browseui.dll cabview.dll  
 comdlg32.dll cscui.dll docprop2.dll explorer.exe mydocs.dll netplwiz.dll shdocvw.dll  
 shell32.dll shimgvw.dll twext.dll webvw.dll  
 10 shlwapi.460 SHExpandEnvironmentStrings late 5.00 builds and higher  
 browseui.dll dataclen.dll explorer.exe iexplore.exe mydocs.dll plustab.dll  
 runonce.exe shdocvw.dll shell32.dll themeui.dll  
 8 shlwapi.260 SHQueueUserWorkItem browseui.dll explorer.exe msxml3.dll  
 printui.dll shdocvw.dll shell32.dll themeui.dll wininet.dll  
 7 shlwapi.436 CLSIDFromStringWrap dxtrans.dll (epeers.dll) mshtml.dll  
 mstime.dll shdocvw.dll urlmon.dll webcheck.dll  
 7 shlwapi.431 MLClearMLHInstance browseui.dll cdfview.dll inetcp1.cp1  
 msrating.dll occache.dll shdocvw.dll urlmon.dll webcheck.dll  
 7 shlwapi.413 SHGetMachineInfo explorer.exe mshtml.dll mshtml.ed.dll  
 plustab.dll shell32.dll taskmgr.exe webcheck.dll  
 7 shlwapi.376 MLGetUILanguage browseui.dll iexplore.exe inetcomm.dll  
 inetcp1.cp1 mshtml.dll msoc.dll msrating.dll shdocvw.dll  
 7 shlwapi.186 SHSimulateDrop browseui.dll cabview.dll printui.dll shdocvw.dll  
 shell32.dll wiaacmgr.exe wiahex.dll  
 6 shlwapi.425 DeleteMenuWrap browseui.dll cdfview.dll mshtml.dll msieftp.dll  
 shdocvw.dll shimgvw.dll  
 6 shlwapi.394 SHChangeNotifyWrap browseui.dll cdfview.dll iedkcs32.dll  
 inetcp1.cp1 plustab.dll shdocvw.dll webcheck.dll  
 6 shlwapi.342 SHInterlockedCompareExchange msieftp.dll msxml3.dll shdocvw.dll  
 shell32.dll winhttp.dll wininet.dll  
 6 shlwapi.216 SHAnsiToUnicodeCP cabview.dll msieftp.dll shdocvw.dll  
 shell32.dll shscrap.dll urlmon.dll  
 6 shlwapi.197 SHFillRectClr browseui.dll comdlg32.dll explorer.exe shdocvw.dll  
 shell32.dll shimgvw.dll  
 6 shlwapi.193 SHGetCurColorRes browseui.dll explorer.exe nusrmgr.cp1  
 shdocvw.dll shell32.dll shimgvw.dll themeui.dll  
 6 shlwapi.175 IUnknown\_GetClassID browseui.dll comdlg32.dll desk.cp1  
 explorer.exe shdocvw.dll shell32.dll themeui.dll  
 6 shlwapi.165 SHSetWindowBits browseui.dll explorer.exe shdocvw.dll  
 shell32.dll shimgvw.dll themeui.dll  
 6 shlwapi.164 IUnknown\_Exec browseui.dll explorer.exe inetcomm.dll mshtml.dll  
 shdocvw.dll shell32.dll  
 5 shlwapi.534 SHPropertyBag\_ReadBOOL browseui.dll netplwiz.dll shdocvw.dll  
 shell32.dll themeui.dll  
 5 shlwapi.507 SHPropertyBag\_ReadDWORD browseui.dll shdocvw.dll  
 shell32.dll themeui.dll urlmon.dll  
 5 shlwapi.496 SHPropertyBag\_ReadLONG browseui.dll shdocvw.dll shell32.dll  
 shimgvw.dll themeui.dll  
 5 shlwapi.446 PathFileExistsAndAttributesW late 5.00 builds and higher  
 browseui.dll mydocs.dll shdocvw.dll shell32.dll urlmon.dll  
 5 shlwapi.426 DestroyMenuWrap browseui.dll cdfview.dll inetcp1.cp1  
 mshtml.dll shdocvw.dll webcheck.dll  
 5 shlwapi.355 IUnknown\_EnableModeless browseui.dll comdlg32.dll  
 msieftp.dll shdocvw.dll shell32.dll  
 5 shlwapi.236 SHPinD11ofCLSID appwiz.cpl browseui.dll explorer.exe  
 fldrclnr.dll shdocvw.dll shell32.dll  
 5 shlwapi.223 SHGlobalCounterGetValue browseui.dll cscui.dll  
 msrating.dll shdocvw.dll shell32.dll  
 5 shlwapi.218 SHUnicodeToAnsiCP browseui.dll msieftp.dll shdocvw.dll  
 shell32.dll urlmon.dll  
 5 shlwapi.212 IStream\_Write browseui.dll explorer.exe inetcomm.dll shdocvw.dll  
 shell32.dll  
 5 shlwapi.163 IUnknown\_QueryStatus browseui.dll explorer.exe mshtml.dll  
 shdocvw.dll shell32.dll  
 4 shlwapi.509 IUnknown\_OnFocusChangeIS browseui.dll explorer.exe

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shdocvw.dll shell32.dll
4 shlwapi.479 IUnknown_UIActivateIO browseui.dll explorer.exe shdocvw.dll
shell32.dll
4 shlwapi.477 SHCreatePropertyBagOnMemory netplwiz.dll shdocvw.dll
shell32.dll shimvw.dll
4 shlwapi.456 PathIsValidCharw late 5.00 builds and higher msieftp.dll
query.dll shell32.dll zipfldr.dll
4 shlwapi.435 CLSIDFromProgIDWrap dxtrans.dll iepeers.dll mshtml.dll
urlmon.dll
4 shlwapi.271 SHGetRestriction appwiz.cpl iedkcs32.dll plustab.dll
shell32.dll themeui.dll
4 shlwapi.269 GUIDFromString browseui.dll extmgr.dll shdocvw.dll
shell32.dll
4 shlwapi.268 SHWeakReleaseInterface browseui.dll shdocvw.dll shell32.dll
twext.dll
4 shlwapi.267 SHWeakQueryInterface browseui.dll shdocvw.dll shell32.dll
twext.dll
4 shlwapi.263 SHSetTimerQueueTimer mnymetal.dll obemetal.dll shdocvw.dll
shell32.dll
4 shlwapi.240 SHDefWindowProc browseui.dll explorer.exe shdocvw.dll
shell32.dll
4 shlwapi.222 SHGlobalCounterCreate browseui.dll msrating.dll shdocvw.dll
shell32.dll
4 shlwapi.220 SHSetDefaultDialogFont browseui.dll inetctl.cpl shdocvw.dll
shell32.dll urlmon.dll
4 shlwapi.192 SHGetMenuFromID browseui.dll explorer.exe shdocvw.dll
shell32.dll
4 shlwapi.178 SHPropagateMessage browseui.dll explorer.exe main.cpl
shdocvw.dll shell32.dll
4 shlwapi.171 SHIsSameObject browseui.dll explorer.exe shdocvw.dll shell32.dll
3 shlwapi.549 SHCoCreateInstanceAC browseui.dll shdocvw.dll shell32.dll
3 shlwapi.540 SHInvokeCommandOnContextMenu shdocvw.dll shell32.dll
wiasext.dll
3 shlwapi.538 IUnknown_QueryServiceForWebBrowserApp browseui.dll shdocvw.dll
shell32.dll
3 shlwapi.506 SHPropertyBag_WriteGUID browseui.dll shdocvw.dll
shell32.dll
3 shlwapi.505 SHPropertyBag_ReadGUID browseui.dll shdocvw.dll shell32.dll
3 shlwapi.491 SHGetShellKey browseui.dll shdocvw.dll shell32.dll
3 shlwapi.484 IUnknown_QueryServiceExec browseui.dll shdocvw.dll
shell32.dll
3 shlwapi.471 SHCreatePropertyBagOnRegKey netplwiz.dll shdocvw.dll
shell32.dll
3 shlwapi.467 SHRunIndirectRegClientCommand also ordinal 190 in SHDOCWV;late
5.00 builds and higher browseui.dll explorer.exe shdocvw.dll
3 shlwapi.461 SHGetAppCompatFlags late 5.00 builds and higher cmdlg32.dll
shdocvw.dll shell32.dll
3 shlwapi.427 TrackPopupMenuWrap browseui.dll inetctl.cpl mshtml.dll
shdocvw.dll
3 shlwapi.384 SHRestrictedMessageBox late 5.00 builds and higher browseui.dll
shdocvw.dll shell32.dll
3 shlwapi.382 ZoneComputePaneSize late 5.00 builds and higher msieftp.dll
shdocvw.dll shell32.dll
3 shlwapi.279 SHInvokeDefaultCommand browseui.dll explorer.exe shdocvw.dll
3 shlwapi.266 SHRestrictionLookup cmdlg32.dll shdocvw.dll shell32.dll
3 shlwapi.221 SHRemoveDefaultDialogFont browseui.dll inetctl.cpl
shdocvw.dll shell32.dll
3 shlwapi.198 SHSearchMapInt browseui.dll shdocvw.dll shell32.dll
3 shlwapi.195 SHIsExpandableFolder browseui.dll shdocvw.dll shell32.dll
3 shlwapi.187 SHLoadFromPropertyBag browseui.dll shdocvw.dll shell32.dll
3 shlwapi.173 IUnknown_SetOwner browseui.dll shdocvw.dll shell32.dll
3 shlwapi.167 SHSetParentHwnd browseui.dll shdocvw.dll shell32.dll
2 shlwapi.551 IShellFolder_CompareIDs shdocvw.dll shell32.dll

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tmp.tmp
2 shlwapi.542 GetUIVersion browseui.dll inetctl.cpl shdocvw.dll
2 shlwapi.539 IUnknown_ShowBrowserBar shdocvw.dll shell32.dll
2 shlwapi.520 SHPropertyBag_ReadBSTR shdocvw.dll shell32.dll
2 shlwapi.428 TrackPopupMenuExwrap browseui.dll shdocvw.dll
2 shlwapi.383 ZoneConfigurew late 5.00 builds and higher browseui.dll shdocvw.dll
2 shlwapi.316 IShellFolder_GetDisplayNameof late 5.00 builds and higher
shdocvw.dll shell32.dll
2 shlwapi.286 IUnknown_CPCContainerInvokeParam browseui.dll shdocvw.dll
2 shlwapi.284 IConnectionPoint_SimpleInvoke shdocvw.dll shell32.dll
2 shlwapi.283 IConnectionPoint_InvokewithCancel shdocvw.dll shell32.dll
2 shlwapi.281 SHPackDispParamsV mshtml.dll shdocvw.dll
2 shlwapi.234 ZoneCheckHost msieftp.dll shell32.dll
2 shlwapi.182 SHCheckMenuItem browseui.dll shdocvw.dll
2 shlwapi.181 SHEnableMenuItem browseui.dll shdocvw.dll
2 shlwapi.13 RegisterDefaultAcceptHeaders mshtml.dll shdocvw.dll
1 shlwapi.458 GetLongPathNamewrapA late 5.00 builds and higher shdocvw.dll
1 shlwapi.455 PathIsValidCharA late 5.00 builds and higher msieftp.dll
1 shlwapi.287 IUnknown_CPCContainerOnchanged shdocvw.dll
1 shlwapi.282 SHPackDispParams shdocvw.dll
1 shlwapi.249 Stopwatch_MarkJavaStop shdocvw.dll
1 shlwapi.248 Stopwatch_MarkSameFrameStart shdocvw.dll
1 shlwapi.189 IUnknown_OnFocusOCS shdocvw.dll
1 shlwapi.188 IUnknown_TranslateAcceleratorOCS shdocvw.dll
1 comctl32.383 DoReaderMode mshtml.dll

```

check shlguid.p.h  
ieguids.c  
guids.c

prntbale.cxx  
clsit.hxx

ie.srt

9 {fbf23b40-e3f0-101b-8488-00aa003e56f8} "CLSID\_InternetShortcut"  
8 {25336920-03f9-11cf-8fd0-00aa00686f13} "CLSID\_HTMLDocument"  
5 {b725f130-47ef-101a-a5f1-02608c9eebac} "FMTID\_Storage"  
5 {8856f961-340a-11d0-a96b-00c04fd705a2} "CLSID\_WebBrowser"  
5 {7b8a2d94-0ac9-11d1-896c-00c04fb6bfc4} "CLSID\_InternetSecurityManager"  
5 {79eac9e5-baf9-11ce-8c82-00aa004ba90b} "IID\_InternetProtocolSink"  
5 {79eac9e4-baf9-11ce-8c82-00aa004ba90b} "IID\_IInternetProtocol"  
5 {79eac9e3-baf9-11ce-8c82-00aa004ba90b} "IID\_IInternetProtocolRoot"  
4 {9ba05972-f6a8-11cf-a442-00a0c90a8f39} "CLSID\_ShellWindows[shdocvw.dll] -> winlist.cpp  
4 {79eac9c1-baf9-11ce-8c82-00aa004ba90b} "IID\_IBindStatusCallback"  
4 {0968e258-16c7-4dba-aa86-462dd61e31a3} "PersistentZoneIdentifier attachment.cpp  
4 {0002df05-0000-0000-c000-000000000046} "IID\_IWebBrowserApp"  
4 {0002df01-0000-0000-c000-000000000046} "CLSID\_InternetExplorer"  
3 {fc4801a3-2ba9-11cf-a229-00aa003d7352} "IID\_IObjectWithSite"  
3 {eab22ac2-30c1-11cf-a7eb-0000c05bae0b} "DIID\_DWebBrowserEvents"  
3 {d30c1661-cdaf-11d0-8a3e-00c04fc9e26e} "IID\_IWebBrowser2"  
3 {cb5bdc81-93c1-11cf-8f20-00805f2cd064} "IID\_IObjectSafety"  
3 {cabb0da0-da57-11cf-9974-0020afd79762} "IID\_UniformResourceLocatorW"  
3 {b45ff030-4447-11d2-85de-00c04fa35c89} "CLSID\_SearchAssistantOC"  
3 {7fd52380-4e07-101b-ae2d-08002b2ec713} "IID\_IPersistStreamInit"  
3 {7b8a2d95-0ac9-11d1-896c-00c04fb6bfc4} "CLSID\_InternetZoneManager"  
3 {79eac9ee-baf9-11ce-8c82-00aa004ba90b} "IID\_IInternetSecurityManager"  
3 {79eac9ed-baf9-11ce-8c82-00aa004ba90b} "IID\_IInternetSecurityMgrSite"  
3 {79eac9d0-baf9-11ce-8c82-00aa004ba90b} "IID\_IAAuthenticate"  
3 {79eac9c5-baf9-11ce-8c82-00aa004ba90b} "IID\_IHlinkFrame"  
3 {6d5140c1-7436-11ce-8034-00aa006009fa} "IID\_IServiceProvider"  
3 {55272a00-42cb-11ce-8135-00aa004bb851} "IID\_IPropertyBag"  
3 {43a8f463-4222-11d2-b641-006097df5bd4} "IID\_INSCTree" a/s 2  
3 {3c374a40-bae4-11cf-bf7d-00aa006946ee} "CLSID\_CURLHistory"  
3 {34a715a0-6587-11d0-924a-0020afc7ac4d} "DIID\_DWebBrowserEvents2"  
3 {332c4427-26cb-11d0-b483-00c04fd90119} "IID\_IHTMLWindow2"  
3 {0002e013-0000-0000-c000-000000000046} "IID\_ICatInformation"  
3 {0002e005-0000-0000-c000-000000000046} "CLSID\_StdComponentCategoriesMgr"  
3 {000214f9-0000-0000-c000-000000000046} "IID\_IShellLinkW"  
3 {00000112-0000-0000-c000-000000000046} "IID\_IoleObject"  
3 {0000010c-0000-0000-c000-000000000046} "IID\_IPersist"  
3 {0000010b-0000-0000-c000-000000000046} "IID\_IPersistFile"  
3 {00000109-0000-0000-c000-000000000046} "IID\_IPersistStream"  
3 {00000101-0000-0000-c000-000000000046} "IID\_IEnumString"  
3 {0000000e-0000-0000-c000-000000000046} "IID\_IBindCtx"  
3 {0000000c-0000-0000-c000-000000000046} "IID\_IStream"  
3 {00000001-0000-0000-c000-000000000046} "IID\_IClassFactory"  
2 {ff393560-c2a7-11cf-bff4-444553540000} CLSID\_HIST[shdocvw.dll] --- ??? (?)  
2 {f490eb00-1240-11d1-9888-006097deacf9} "IID\_IActiveDesktop"  
2 {efa24e61-b078-11d0-89e4-00c04fc9e26e} CLSID\_FavBand[shdocvw.dll] --- ??? favband.cpp  
2 {e7e4bc40-e76a-11ce-a9bb-00aa004ae837} "CLSID\_CDocObjectFolder"  
2 {e572d3c9-37be-4ae2-825d-d521763e3108} "IShellNamespace"  
2 {de4ba900-59ca-11cf-9592-444553540000} "CGID\_MSHTML"  
2 {d2bc4c84-3f72-4a52-a604-7bcbf3982cbb} "I-NewWindowManager -> one number doc:  
2 {cf51ed10-62fe-11cf-bf86-00a0c9034836} "IID\_IQuickActivate" Evaluate New -  
2 {cd45f185-1b21-48e2-967b-ead743a8914e} "I-ZoneIdentifier (urlmon) window  
2 {cb728b20-f786-11ce-92ad-00aa00a74cd0} "IID\_IProfferService"  
2 {c08afd90-f2a1-11d1-8455-00a0c91f3880} "ShellBrowserWindow (ExDisp)  
2 {bd3f23c0-d43e-11cf-893b-00aa00bdce1a} "IID\_IDocHostUIHandler"  
2 {b722be00-4e68-101b-a2bc-00aa00404770} "SID\_SContainerDispatch"  
2 {b722bccb-4e68-101b-a2bc-00aa00404770} "IID\_IoleCommandTarget"  
2 {b722bcc7-4e68-101b-a2bc-00aa00404770} "IID\_IoleDocumentSite"  
2 {b722bcc5-4e68-101b-a2bc-00aa00404770} "IID\_IoleDocument"  
2 {b196b28b-bab4-101a-b69c-00aa00341d07} "IID\_ISpecifyPropertyPages"  
2 {b196b289-bab4-101a-b69c-00aa00341d07} "IID\_IoleControlSite"  
2 {b196b288-bab4-101a-b69c-00aa00341d07} "IID\_IoleControl"  
2 {b196b287-bab4-101a-b69c-00aa00341d07} "IID\_IEnumConnections"  
2 {b196b286-bab4-101a-b69c-00aa00341d07} "IID\_IConnectionPoint"

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ie.srt
2 {b196b285-bab4-101a-b69c-00aa00341d07} "IID_IEnumConnectionPoints"
2 {b196b284-bab4-101a-b69c-00aa00341d07} "IID_IConnectionPointContainer" doc
2 {b196b283-bab4-101a-b69c-00aa00341d07} "IID_IProvideClassInfo"
2 {adb880a6-d8ff-11cf-9377-00aa003b7a11} --- HHCtrl object
2 {a6bc3ac0-dbaa-11ce-9de3-00aa004bb851} "IID_IProvideClassInfo2"
2 {9e56be60-c50f-11cf-9a2c-00a0c90a90ce} "CLSID_MailRecipient"
2 {9c2cad80-3424-11cf-b670-00aa004cd6d8} "IID_IoleInPlaceSiteEx"
2 {9bfbbc02-eff1-101a-84ed-00aa00341d07} "IID_IPropertyNotifySink"
2 {922ead0-3424-11cf-b670-00aa004cd6d8} "IID_IoleInPlaceSiteWindowless" doc
2 {91a565c1-e38f-11d0-b9bf-00a0c985cbf9} "IID_IPersistHistory" doc
2 {86d52e11-94a8-11d0-82af-00c04fd5ae38} "IID_ITargetFrame2" doc
2 {8455f0c1-158f-11d0-89ae-00a0c90a90ac} "IID_IExplorerToolBar"
2 {7bd29e01-76c1-11cf-9dd0-00a0c9034933} CLSID_CACHE2[shdocvw.dll] --- ???
2 {7bd29e00-76c1-11cf-9dd0-00a0c9034933} CLSID_CACHE[shdocvw.dll] --- ???
2 {75048700-ef1f-11d0-9888-006097deacf9} "CLSID_ActiveDesktop"
2 {72423e8f-8011-11d2-be79-00a0c9a83da1} "IID_ISearchAssistantOC" - see .class
2 {55980ba0-35aa-11cf-b671-00aa004cd6d8} "IID_IPointerInactive" doc
2 {55136804-b2de-11d1-b9f2-00a0c98bc547} --- IShellFavoritesNamespace - see .class ??
2 {53bd6b4e-3780-4693-afc3-7161c2f3ee9c} "CLSID_MruLongList"
2 {4c96be40-915c-11cf-99d3-00aa004ae837} "SID_StopLevelBrowser"
2 {4667b50c-3a16-4e4b-b7a7-ee9d7c93ac90} --- ??
2 {4438a9ea-071e-49ad-bc28-244131d568be} --- ??
2 {42aedc87-2188-41fd-b9a3-0c966feabec1} "CLSID_MrupidList"
2 {3c374a41-bae4-11cf-bf7d-00aa006946ee} "IID_IUrlHistoryStg" doc
2 {3af280b6-cb3f-11d0-891e-00c04fb6bfc4} "IID_IInternetHostSecurityManager"
2 {3af24292-0c96-11ce-a0cf-00aa00600ab8} "IID_IViewObjectEx" UNDOC?
2 {37d84f60-42cb-11ce-8135-00aa004bb851} "IID_IPersistPropertyBag" doc
2 {332c4425-26cb-11d0-b483-00c04fd90119} "IID_IHTMLDocument2"
2 {30d02401-6a81-11d0-8274-00c04fd5ae38} CLSID_SearchBand[iframe.dll] - Inplace UI on WinEvent
2 {3050f803-98b5-11cf-bb82-00aa00bdce0b} "SID_QIClientSite"
2 {3050f21f-98b5-11cf-bb82-00aa00bdce0b} "IID_IHTMLCollection"
2 {3050f1ff-98b5-11cf-bb82-00aa00bdce0b} "IID_IHTMLCollection"
2 {1c2056cc-5ef4-101b-8bc8-00aa003e3b29} "IID_IoleInPlaceObjectWindowless" doc
2 {131a6951-7f78-11d0-a979-00c04fd705a2} CLSID_ISFBandOC[shdocvw.dll] - On InPlace Activate?
2 {05f6fela-ecf-11d0-aae7-00c04fc9b304} "CLSID_IntDitherer"
2 {02ba3b52-0547-11d1-b833-00c04fc9b31f} "IID_IBrowserService"
2 {012dd920-7b26-11d0-8ca9-00a0c92dbfe8} "IID_IDockingWindow" doc
2 {00021500-0000-0000-c000-000000000046} "IID_IQueryInfo" cf InPlace Site
2 {000214ee-0000-0000-c000-000000000046} "IID_IShellLink"
2 {000214e9-0000-0000-c000-000000000046} "IID_IShellPropSheetExt"
2 {000214e2-0000-0000-c000-000000000046} "IID_IShellBrowser"
2 {000214d1-0000-0000-c000-000000000046} "CGID_ShellDocView"
2 {000214d0-0000-0000-c000-000000000046} "CGID_Explorer"
2 {00021401-0000-0000-c000-000000000046} "CLSID_ShellLink"
2 {00021400-0000-0000-c000-000000000046} "CLSID_ShellDesktop"
2 {00020404-0000-0000-c000-000000000046} "IID_IEnumVARIANT"
2 {0000013a-0000-0000-c000-000000000046} "IID_IPropertySetStorage"
2 {00000127-0000-0000-c000-000000000046} "IID_IViewObject2"
2 {00000122-0000-0000-c000-000000000046} "IID_IDropTarget"
2 {0000011b-0000-0000-c000-000000000046} "IID_IoleContainer"
2 {00000119-0000-0000-c000-000000000046} "IID_IoleInPlaceSite"
2 {00000118-0000-0000-c000-000000000046} "IID_IoleClientSite"
2 {00000117-0000-0000-c000-000000000046} "IID_IoleInPlaceActiveObject"
2 {00000116-0000-0000-c000-000000000046} "IID_IoleInPlaceFrame"
2 {00000115-0000-0000-c000-000000000046} "IID_IoleInPlaceUIWindow"
2 {00000114-0000-0000-c000-000000000046} "IID_IoleWindow"
2 {00000113-0000-0000-c000-000000000046} "IID_IoleInPlaceObject"
2 {0000010f-0000-0000-c000-000000000046} "IID_IAdviseSink"
2 {0000010e-0000-0000-c000-000000000046} "IID_IDataObject"
2 {0000010d-0000-0000-c000-000000000046} "IID_IViewObject"
2 {0000010a-0000-0000-c000-000000000046} "IID_IPersistStorage"
2 {00000103-0000-0000-c000-000000000046} "IID_IEnumFORMATETC"
2 {0000000b-0000-0000-c000-000000000046} "IID_IStorage"

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ie.srt
1 {fef10fa2-355e-4e06-9381-9b24d7f7cc88} _CLSID_FolderItem
1 {fe787bcb-0ee8-44fb-8c89-12f508913c40} _IID_IMruDataList
1 {fbf23b41-e3f0-101b-8488-00aa003e56f8} CLSID_MIMEFileTypesHook[shell32.dll] =
1 {f3364ba0-65b9-11ce-a9ba-00aa004ae837} "CLSID_ShellFSDFolder" c FileTypes?
1 {f1db8392-7331-11d0-8c99-00a0c92dbfe8} _IID_IInputObjectSite" doc
1 {ecf90408-f38c-44fe-9f1b-02a72baf603c} -- ??
1 {ecf90406-f38c-44fe-9f1b-02a72baf603c} -- ??
1 {ecf90405-f38c-44fe-9f1b-02a72baf603c} -- ??
1 {eb30900c-1ac4-11d2-8383-00c04fd918d0} _TASKID_IconExtraction
1 {eb0fe172-1a3a-11d0-89b3-00a0c90a90ac} _IID_IDeskBand
1 {eac04bc0-3791-11d2-bb95-0060977b464c} _IID_IAutoComplete2"
1 {ea5f2d61-e008-11cf-99cb-00c04fd64497} _IID_IWinEventHandler
1 {e7a1af80-4d96-11cf-960c-0080c7f4ee85} --- IShellFolderViewDual - Pop up Item Menu
1 {e436eb7e-524f-11ce-9f53-0020af0ba770} "BFID_RGB_32" Set - Focused Item
1 {e436eb7d-524f-11ce-9f53-0020af0ba770} "BFID_RGB_24" Set - Application
1 {e436eb7c-524f-11ce-9f53-0020af0ba770} "BFID_RGB_555"
1 {e436eb7b-524f-11ce-9f53-0020af0ba770} "BFID_RGB_565"
1 {e436eb7a-524f-11ce-9f53-0020af0ba770} "BFID_RGB_8"
1 {e0e270c0-c0be-11d0-8fe4-00a0c90a6341} _IID_OLEDBSimpleProvider"
1 {df0b3d60-548f-101b-8e65-08002b2bd119} _IID_ISupportErrorInfo
1 {de5bf786-477a-11d2-839d-00c04fd918d0} _IID_IDragSourceHelper" doc
1 {dd313e05-feff-11d1-8ecd-0000f87a470c} _IID_IUserAssist"
1 {dd313e04-feff-11d1-8ecd-0000f87a470c} "CLSID_UserAssist"
1 {d969a300-e7ff-11d0-a93b-00a0c90f2719} CLSID_NewMenu[shell32.dll]
1 {d82be2b1-5764-11d0-a96e-00c04fd705a2} _IID_IShellChangeNotify" doc
1 {d515f311-b78b-11d1-9123-00a0c98ba67d} _SRCID_SFIndPrinter
1 {d2b57227-3d23-4b95-93c0-492bd454c356} _IID_IInsertItem"
1 {cde725b0-ccc9-4519-917e-325d72fab4ce} _IID_IFolderView"
1 {c8b522be-5cf3-11ce-ade5-00aa0044773d} --- DBPROPSET_ROWSET[oledb]
1 {c82bcf8b-f9c1-4102-894b-0483c30883c7} -- ??
1 {c4ee31f3-4768-11d2-be5c-00a0c9a83da1} CLSID_FileSearchBand[shell32.dll] searchext. app
1 {c46ca590-3c3f-11d2-bee6-0000f805ca57} _IID_IQueryAssociations" searchext. app
1 {c0a651f5-b48b-11d2-b5ed-006097c686f6} --- IFolderFilterSite" Set Search Parameters
1 {bb2e617c-0920-11d1-9a0b-00c04fc2d6c1} _IID_IExtractImage" Find to my PC
1 {b8a9c381-19df-11d1-9193-006097df5bd4} _IID_IISWebBrowserSite" Set Filter? Find on Web
1 {b85d89f1-1575-458d-bc50-8b463cff30ff} -- ?? Find Page
1 {b6ea2050-048a-11d1-82b9-00c04fb9942e} _IID_IAXWinHostWindow" doc
1 {b62f5910-6528-11d1-9611-0000f81e0d0d} "GUID_ATLVer30"
1 {b22754e2-4574-11d1-9888-006097deacf9} _IID_IADesktopP2
1 {b091e540-83e3-11cf-a713-0020afd79762} CLSID_FileTypes[shell32.dll] - Add Pages?
1 {add8ba80-002b-11d0-8f0f-00c04fd7062} _IID_IDelegateFolder"
1 {abbe31d0-6dae-11d0-beca-00c04fd940be} --- "subscription mgr" ??? doc
1 {aac9640-1252-11d0-89a9-00a0c9054129} _IID_IConnectionPointCB
1 {a4c6892c-3ba9-11d2-9dea-00c04fb16162} _IID_IShellDispatch2"
1 {a48f1a32-a340-11d1-bc6b-00a0c90312e1} _GUID_Restrictions
1 {a47d8dc0-abf3-4d83-acff-8d4de0894dbc} --- ???
1 {a07034fd-6caa-4954-ac3f-97a27216f98a} "CLSID_QueryAssociations"
1 {9cc22886-dc8e-11d2-b1d0-00c04f8eeb3e} --- IFolderFilter"
1 {996e1eb1-b524-11d1-9120-00a0c98ba67d} "CLSID_FindComputers"
1 {93f2f68c-1d1b-11d3-a30e-00c04f79abd1} _IID_IShellFolder2"
1 {8fce5227-04da-11d1-a004-00805f8abe06} _IID_IEmptyVolumeCache" doc
1 {8bebb290-52d0-11d0-b7f4-00c04fd706ec} _VID_Thumbnails
1 {8a00685d-ea4d-8f00-c5d5-0041545a0046} --- ???
1 {88e39e80-3578-11cf-ae69-08002b2e1262} _IID_IShellView2"
1 {87d605e0-c511-11cf-89a9-00a0c9054129} _IID_IDocViewSite
1 {871c5380-42a0-1069-a2ea-08002b30309d} "CLSID_Internet"
1 {85788d00-6807-11d0-b810-00c04fd706ec} _IID_IRunnableTask" doc
1 {83799fe0-1f5a-11d1-95c7-00609797ea4f} CLSID_DOCFILEInfoTip
1 {801c1ad5-c47c-428c-97af-e991e4857d97} _IID_IUnCtree2"
1 {7d688a70-c613-11d0-999b-00c04fd655e1} _IID_IShellIconOverlay" doc
1 {79eac9ef-baf9-11ce-8c82-00aa004ba90b} _IID_IInternetZoneManager" doc
1 {70f55181-5fea-4900-b6b8-7343cb0a348c} _IID_IDVGetEnum" doc
1 {6d12fe80-7911-11cf-9534-0000c05bae0b} "SID_DefView"

```

```

ie.srt
1 {6ccb7be0-6807-11d0-b810-00c04fd706ec} "IID_IShellTaskScheduler" doc
1 {68bd21cc-438b-11d2-a560-00a0c92dbfe8} "IID_IBrowsersService2" doc
1 {68284faa-6a48-11d0-8c78-00c04fd918b4} "IID_IInputObject" doc
1 {67077b95-4f9d-11d0-b884-00aa00b60104} _CGID_PrivCITCommands
1 {65f125e5-7be1-4810-ba9d-d271c8432ce3} _VID_File
1 {645ff040-5081-101b-9f08-00aa002f954e} "CLSID_RecycleBin"
1 {63da6ec0-2e98-11cf-8d82-444553540000} "CLSID_FtpFolder"
1 {626fc520-a41e-11cf-a731-00a0c9082637} "IID_IHTMLDocument"
1 {618736e0-3c3d-11cf-810c-00aa00389b71} "IID_IAccessible"
1 {603d3800-bd81-11d0-a3a5-00c04fd706ec} "CLSID_ShellTaskScheduler"
1 {5e6ab780-7743-11cf-a12b-00aa004ae837} CLSID_InternetToolbar[browseui.dll]
1 {5836fb00-8187-11cf-a12b-00aa004ae837} _IID_IShellService doc
1 {53c74826-ab99-4d33-aca4-3117f51d3788} _CLSID_FolderItemsFDF
1 {52502ee0-ec80-11d0-89ab-00c04fc2972d} "IID_IActiveDesktop" doc
1 {49e1b500-4636-11d3-97f7-00c04f45d0b3} "SID_StopWindow"
1 {47851649-a2ef-4e67-baec-c6a153ac72ec} "IID_IEnumPidsList"
1 {4657278a-411b-11d2-839a-00c04fd918d0} "CLSID_DragDropHelper"
1 {45ea75a0-a269-11d1-b5bf-0000f8051515} "CLSID_IHelp"
1 {3cd141f4-3c6a-11d2-bcaa-00c04fd929db} "IID_IAutoCompleteDropDown"
1 {3a77ce00-6f74-4594-9399-c4578aa4a1b6} "IID_INotifyAppStart"
1 {3050f25e-98b5-11cf-bb82-00aa00bdce0b} --- IHTMLStyle
1 {2d91eeaa-9932-11d2-be86-00a0c9a83da1} "IID_IFileSearchBand"
1 {22f55882-280b-11d0-a8a9-00a0c90c2004} "IID_IPropertyBag2" doc
1 {1ac3d9f0-175c-11d1-95be-00609797ea4f} "IID_IPersistFolder2"
1 {169a0691-8df9-11d1-a1c4-00c04fd75d13} "CLSID_FindFiles"
1 {137e7700-3573-11cf-ae69-08002b2e1262} _VID_Details
1 {13709620-c279-11ce-a49e-444553540000} "CLSID_Shell"
1 {10df43c8-1dbe-11d3-8b34-006097df5bd4} "IID_IBrowserFrameOptions" doc
1 {1079acfc-29bd-11d3-8e0d-00c04f6837d5} "IID_IPersistIDList" doc
1 {0e5cbf21-d15f-11d0-8301-00aa005b4383} CLSID_QuickLinks[shell32.dll]
1 {0e1fa5e0-3573-11cf-ae69-08002b2e1262} _VID_List
1 {0d7d1d00-6fc0-11d0-a974-00c04fd705a2} _IID_IExpDispSupport doc
1 {0c733a95-2alc-11ce-ade5-00aa0044773d} "IID_IDBASynchStatus" - fe mentions ??
1 {0c733a8c-2alc-11ce-ade5-00aa0044773d} "IID_IAccessor" - fe mentions ??
1 {0c733a7d-2alc-11ce-ade5-00aa0044773d} "IID_IRowsetLocate" - fe mentions ??
1 {0c733a11-2alc-11ce-ade5-00aa0044773d} "IID_IColumnsInfo"
1 {0afaced1-e828-11d1-9187-b532f1e9575d} "CLSID_FolderShortcut"
1 {0a89a860-d7b1-11ce-8350-444553540000} CLSID_ShellDispatchInproc[shdocvw.dll]
1 {089000c0-3573-11cf-ae69-08002b2e1262} _VID_SmallIcons
1 {085fb2c0-0df8-11d1-8f4b-00a0c905413f} --- ISubscriptionMgr - obsolete
1 {06670ca0-ecf1-11d0-aae7-00c04fc9b304} "IID_IIntDitherer"
1 {02b7e3ba-4db3-11d2-b2d9-00c04f8e8c8c} "IID_IEmptyVolumeCache2" doc
1 {00bb2763-6a77-11d0-a535-00c04fd7d062} "CLSID_AutoComplete"
1 {0057d0e0-3573-11cf-ae69-08002b2e1262} _VID_LargeIcons
1 {000214fc-0000-0000-c000-000000000046} "IID_IShellCopyHookW"
1 {000214fa-0000-0000-c000-000000000046} "IID_IExtractIconW"
1 {000214f4-0000-0000-c000-000000000046} "IID_IContextMenu2"
1 {000214f2-0000-0000-c000-000000000046} "IID_IEnumIDList"
1 {000214ef-0000-0000-c000-000000000046} "IID_IShellCopyHookA"
1 {000214ec-0000-0000-c000-000000000046} "IID_IShellDetails"
1 {000214eb-0000-0000-c000-000000000046} "IID_IExtractIconA"
1 {000214ea-0000-0000-c000-000000000046} "IID_IPersistFolder"
1 {000214e8-0000-0000-c000-000000000046} "IID_IShellExtInit"
1 {000214e6-0000-0000-c000-000000000046} "IID_IShellFolder"
1 {000214e5-0000-0000-c000-000000000046} "IID_IShellIcon"
1 {000214e4-0000-0000-c000-000000000046} "IID_IContextMenu"
1 {000214e3-0000-0000-c000-000000000046} "IID_IShellView"
1 {000214a1-0000-0000-c000-000000000046} "FMTID_InternetSite"
1 {00021493-0000-0000-c000-000000000046} "CATID_InfoBand"
1 {00020412-0000-0000-c000-000000000046} "IID_ITypeInfo2"
1 {00000121-0000-0000-c000-000000000046} "IID_IDropSource"
1 {00000100-0000-0000-c000-000000000046} "IID_IEnumUnknown"
1 {00000002-0000-0000-c000-000000000046} "IID_IMalloc"

```



new\_undoc.out  
 from shsemip.h ("SEMI-PRIVATE API ORDINALS"; "This is the list of  
 semi-private ordinals we semi-publish"; lists SHObjectPropertiesORD  
 178; SHCreateDefClassObjectORD 70; SHGetNetResourceORD 69)

SHObjectProperties was doc for settlement -- why this one, not others?

SHObjectProperties -- now doc

756 C:\ie5src\PRIVATE\SHELL\SHELL32\HELP.C - see Shawn Van Ness blog  
 1944 C:\ie5src\shell\shell32\help.c

GetDownlevelCopyDataLossText

1910 C:\ie5src\shell\shell32\copy.c

3186 C:\ie5src\shell\shell32\util.cpp

SHCreateDefClassObject -- see Geoff list

555 C:\ie5src\PRIVATE\SHELL\EXT\RNAUI\CONTAIN.C

729 C:\ie5src\PRIVATE\SHELL\SHELL32\DEFCLSF.C

1752 C:\ie5src\shell\ext\rnaui\contain.c

1916 C:\ie5src\shell\shell32\defclsf.c

SHGetNetResource -- see Geoff list

737 C:\ie5src\PRIVATE\SHELL\SHELL32\DRIVESX.C

777 C:\ie5src\PRIVATE\SHELL\SHELL32\NETVIEWX.C

799 C:\ie5src\PRIVATE\SHELL\SHELL32\PRINTER.C

1923 C:\ie5src\shell\shell32\drivesx.c

1965 C:\ie5src\shell\shell32\netviewx.c

1986 C:\ie5src\shell\shell32\printer.c

SHRefreshSettings

841 C:\ie5src\PRIVATE\SHELL\SHELL32\UTIL.C

742 C:\ie5src\PRIVATE\SHELL\SHDOCVW\ADVANCED.CPP

2928 C:\ie5src\shell\shdoc401\unicpp\advanced.cpp

3144 C:\ie5src\shell\shell32\unicpp\advanced.cpp

3156 C:\ie5src\shell\shell32\unicpp\deskstat.cpp

3186 C:\ie5src\shell\shell32\util.cpp

- sample code on web?  
 "microsoft source code  
 samples";  
 matches defclsf.c,  
 both minimal  
 comments;  
 from MSVC++?

also from Geoff list: (AM32)

SHChangeNotifyUpdate Entry list

ILGetDisplay Name

ILGetIcon Clone

Exit Windows Dialog

RunTimeBts

SHInvalidateDrive Type

SHIsBad Interface Ptr

SHRegisterDrag Drop

SHUnregisterDrag Drop

Register Shell Hook

Page 1

Arrange Windows  
 SHHandleDiskEject

SHFindCompuTs  
 SHWaitForFileToGet  
 SetAppStarting Window  
 SHFreeUnused Libraries  
 SHOpenMsg Message Box  
 Rebuild list of Poms  
 ILGlobalFree  
 SHNetConnection Dialog  
 SHOpen -  
 SHCreateLinks  
 DAD - Set Drag Image from -  
 List View

See  
 shell32 -  
 why se.los

C first (then impl),  
then C++ (then user?)

shell32\_maybe.log  
Maybe undoc shell32 APIs -- skipping PathFileExists, ILGetDisplayName,  
ILGlobalFree

ArrangeWindows 1  
825 C:\ie5src\PRIVATE\SHELL\SHELL32\SMRTTILE.C  
DAD\_DragEnter 4  
537 C:\ie5src\PRIVATE\SHELL\EXT\NSC\AUTOSCR1.C  
735 C:\ie5src\PRIVATE\SHELL\SHELL32\DRAGDROP.C  
1734 C:\ie5src\shell\ext\psc\autoscr1.c  
1921 C:\ie5src\shell\shell32\dragdrop.c  
DAD\_DragEnterEx 9  
469 C:\ie5src\PRIVATE\SHELL\EXPLORER\TRAY.C  
537 C:\ie5src\PRIVATE\SHELL\EXT\NSC\AUTOSCR1.C  
544 C:\ie5src\PRIVATE\SHELL\EXT\NSC\NSCDROP.C  
735 C:\ie5src\PRIVATE\SHELL\SHELL32\DRAGDROP.C  
1548 C:\ie5src\shell\browser\dlload.c  
1734 C:\ie5src\shell\ext\psc\autoscr1.c  
1741 C:\ie5src\shell\ext\psc\nsdrop.c  
1895 C:\ie5src\shell\shdocvw\dlload.c  
1921 C:\ie5src\shell\shell32\dragdrop.c  
DAD\_DragEnterEx2 4  
1548 C:\ie5src\shell\browser\dlload.c  
1696 C:\ie5src\shell\explorer\tray.c  
1895 C:\ie5src\shell\shdocvw\dlload.c  
1921 C:\ie5src\shell\shell32\dragdrop.c  
DAD\_SetDragImageFromListView 6  
537 C:\ie5src\PRIVATE\SHELL\EXT\NSC\AUTOSCR1.C  
735 C:\ie5src\PRIVATE\SHELL\SHELL32\DRAGDROP.C  
804 C:\ie5src\PRIVATE\SHELL\SHELL32\PROWND.C  
1734 C:\ie5src\shell\ext\psc\autoscr1.c  
1921 C:\ie5src\shell\shell32\dragdrop.c  
1990 C:\ie5src\shell\shell32\prwnd.c  
DAD\_SetDragImageFromListView 2  
735 C:\ie5src\PRIVATE\SHELL\SHELL32\DRAGDROP.C  
1921 C:\ie5src\shell\shell32\dragdrop.c  
ExitWindowsDialog 2  
811 C:\ie5src\PRIVATE\SHELL\SHELL32\RESTART.C  
1997 C:\ie5src\shell\shell32\restart.c  
ILGlobalClone 12 [tokens\_ie5\_c\_.log]  
InvalidateDriveType 3  
750 C:\ie5src\PRIVATE\SHELL\SHELL32\FUTIL.C  
1923 C:\ie5src\shell\shell32\drivesx.c  
1938 C:\ie5src\shell\shell32\futil.c  
RLBuildListOfPaths 2  
809 C:\ie5src\PRIVATE\SHELL\SHELL32\REGLIST.C  
1995 C:\ie5src\shell\shell32\reglist.c  
RegisterShellHook 9  
463 C:\ie5src\PRIVATE\SHELL\EXPLORER\INITCAB.C  
467 C:\ie5src\PRIVATE\SHELL\EXPLORER\TASK.C  
469 C:\ie5src\PRIVATE\SHELL\EXPLORER\TRAY.C  
716 C:\ie5src\PRIVATE\SHELL\SHELL32\CBTHOOK.C  
1690 C:\ie5src\shell\explorer\initcab.c  
1694 C:\ie5src\shell\explorer\task.c  
1696 C:\ie5src\shell\explorer\tray.c  
1906 C:\ie5src\shell\shell32\cbthook.c  
2192 C:\ie5src\shell\win16\shell16\cbthook.c  
RegisterShellHookWindow 2  
716 C:\ie5src\PRIVATE\SHELL\SHELL32\CBTHOOK.C  
1906 C:\ie5src\shell\shell32\cbthook.c  
RunFileDialog 2  
469 C:\ie5src\PRIVATE\SHELL\EXPLORER\TRAY.C  
1696 C:\ie5src\shell\explorer\tray.c  
SHAbortInvokeCommand 2

DAD = Drag + Drop

impl

"Image dragging API  
(definitely private)"

"NEVER think about  
making this function  
public!"

shdocvw\dlf;  
IExpDispSupport OC  
OC = 'Ok Control'  
SD =  
shvock.cpp  
see ISearchAssistant OC, 213  
+ .class files,  
EXDisp.h  
IHTMLDataList  
IShellCOM7 Hook  
IShellFolderViewData, 2 -  
not all doc??  
get-script

```

shell32_maybe.log
694 C:\ie5src\PRIVATE\SHELL\SHDOCW\DDE.C
821 C:\ie5src\PRIVATE\SHELL\SHELL32\SHLOBS.C
SHChangeNotifyUpdateEntryList 2
748 C:\ie5src\PRIVATE\SHELL\SHELL32\FNOTIFY.C
1936 C:\ie5src\shell\shell32\fsnotify.c
SHCreateDefClassObject 4
555 C:\ie5src\PRIVATE\SHELL\EXT\RNAUI\CONTAIN.C
729 C:\ie5src\PRIVATE\SHELL\SHELL32\DEFCLSF.C
1752 C:\ie5src\shell\ext\rnui\contain.c
1916 C:\ie5src\shell\shell32\defclsf.c
SHCreateLinks 6
568 C:\ie5src\PRIVATE\SHELL\EXT\RNAUI\SUBOBJ.C
730 C:\ie5src\PRIVATE\SHELL\SHELL32\DEFCM.C
749 C:\ie5src\PRIVATE\SHELL\SHELL32\FSTREEX.C
800 C:\ie5src\PRIVATE\SHELL\SHELL32\PRINTER1.C
1937 C:\ie5src\shell\shell32\fstreex.c
1987 C:\ie5src\shell\shell32\printer1.c
SHFindComputer 3
469 C:\ie5src\PRIVATE\SHELL\EXPLORER\TRAY.C
694 C:\ie5src\PRIVATE\SHELL\SHDOCW\DDE.C
1696 C:\ie5src\shell\explorer\tray.c
SHFreeUnusedLibraries 4
463 C:\ie5src\PRIVATE\SHELL\EXPLORER\INITCAB.C
711 C:\ie5src\PRIVATE\SHELL\SHELL32\BINDER.C
1690 C:\ie5src\shell\explorer\initcab.c
1968 C:\ie5src\shell\shell32\ole2def.c
SHGetNetResource 6
737 C:\ie5src\PRIVATE\SHELL\SHELL32\DRIVESX.C
777 C:\ie5src\PRIVATE\SHELL\SHELL32\NETVIEWX.C
799 C:\ie5src\PRIVATE\SHELL\SHELL32\PRINTER.C
1923 C:\ie5src\shell\shell32\drivesx.c
1965 C:\ie5src\shell\shell32\netviewx.c
1986 C:\ie5src\shell\shell32\printer.c
SHGlobalDefect 4
694 C:\ie5src\PRIVATE\SHELL\SHDOCW\DDE.C
779 C:\ie5src\PRIVATE\SHELL\SHELL32\NOTHUNK.C
1966 C:\ie5src\shell\shell32\nothunk.c
2201 C:\ie5src\shell\win16\shell16\init.c
SHHandleDiskFull 2
1712 C:\ie5src\PRIVATE\SHELL\SHELL32\BITBUCK.C
1902 C:\ie5src\shell\shell32\bitbuck.c
SHIsBadInterfacePtr 2
711 C:\ie5src\PRIVATE\SHELL\SHELL32\BINDER.C
1969 C:\ie5src\shell\shell32\ole2dup.c
SHLogILFromFSIL 5
703 C:\ie5src\PRIVATE\SHELL\SHDOCW\ONETREE.C
749 C:\ie5src\PRIVATE\SHELL\SHELL32\FSTREEX.C
830 C:\ie5src\PRIVATE\SHELL\SHELL32\ULROOTX.C
1937 C:\ie5src\shell\shell32\fstreex.c
2014 C:\ie5src\shell\shell32\ulrootx.c
SHNetConnectionDialog 10 [tokens_ie5_c_.log]
SHOutOfMemoryMessageBox 1
777 C:\ie5src\PRIVATE\SHELL\SHELL32\NETVIEWX.C
SHRegisterDragDrop 4
469 C:\ie5src\PRIVATE\SHELL\EXPLORER\TRAY.C
781 C:\ie5src\PRIVATE\SHELL\SHELL32\OLE2DEF.C
804 C:\ie5src\PRIVATE\SHELL\SHELL32\PROWND.C
1968 C:\ie5src\shell\shell32\ole2def.c
SHRevokeDragDrop 2
781 C:\ie5src\PRIVATE\SHELL\SHELL32\OLE2DEF.C
1968 C:\ie5src\shell\shell32\ole2def.c
SHWaitForFileToOpen 2
817 C:\ie5src\PRIVATE\SHELL\SHELL32\SHLEXEC.C

```

Uk shell 32.4  
Find Execlg Proc  
- Awaited to

impl; sub

- slightly different from OLB  
- impl; same as public

impl: call BUUnloadNow for early  
timer - at DLL; WMLR  
DLL list 1992-3

impl

- used in fix for WinFax Pro

- impl; says for WinFax Pro  
- No, why around ord

- impl; "hardening!"

- impl? do wrapper

- impl

~~MISSING some  
IES sent to Google found!  
NO, lists for C, CPP  
are separate~~

shell32\_maybe.log

2003 C:\ie5src\shell\shell32\shlexec.c  
 SHWinHelp 1  
 841 C:\ie5src\PRIVATE\SHELL\SHELL32\UTIL.C  
 SHWinHelpOnDemandWrap 2  
 1806 C:\ie5src\shell\ext\url\filetype.c  
 1807 C:\ie5src\shell\ext\url\fsassoc.c  
 SetAppStartingCursor 2  
 817 C:\ie5src\PRIVATE\SHELL\SHELL32\SHLEXEC.C  
 841 C:\ie5src\PRIVATE\SHELL\SHELL32\UTIL.C  
 \_DAD\_DragEnterEx2 1  
 1895 C:\ie5src\shell\shdocvw\dllload.c  
 \_RunFileDialog 2  
 469 C:\ie5src\PRIVATE\SHELL\EXPLORER\TRAY.C  
 1696 C:\ie5src\shell\explorer\tray.c  
 \_DAD\_DragEnterEx2 2  
 1548 C:\ie5src\shell\browseui\dllload.c  
 1895 C:\ie5src\shell\shdocvw\dllload.c

---

ArrangeWindows 1  
 3186 C:\ie5src\shell\shell32\util.cpp *sub, no one using*  
 DAD\_DragEnterEx 6  
 803 C:\ie5src\PRIVATE\SHELL\SHDOCVW\DROPTGT.CPP  
 906 C:\ie5src\PRIVATE\SHELL\SHDOCVW\TREEDROP.CPP  
 923 C:\ie5src\PRIVATE\SHELL\SHELL32\DEFVIEW.CPP  
 1976 C:\ie5src\shell\browseui\droptgt.cpp  
 2616 C:\ie5src\shell\ext\thumbvw\dllload.cpp  
 2888 C:\ie5src\shell\lib\droptgt.cpp  
 DAD\_DragEnterEx2 7  
 1976 C:\ie5src\shell\browseui\droptgt.cpp  
 2041 C:\ie5src\shell\browseui\util.cpp  
 2616 C:\ie5src\shell\ext\thumbvw\dllload.cpp  
 2628 C:\ie5src\shell\ext\thumbvw\thextsup.cpp  
 2888 C:\ie5src\shell\lib\droptgt.cpp  
 3086 C:\ie5src\shell\shdocvw\util.cpp  
 3186 C:\ie5src\shell\shell32\util.cpp  
 DAD\_SetDragImageFromListView 2  
 923 C:\ie5src\PRIVATE\SHELL\SHELL32\DEFVIEW.CPP  
 3101 C:\ie5src\shell\shell32\defview.cpp  
 ILGlobalClone 3  
 881 C:\ie5src\PRIVATE\SHELL\SHDOCVW\SHBROWSE.CPP  
 927 C:\ie5src\PRIVATE\SHELL\SHELL32\ENUM.CPP  
 3112 C:\ie5src\shell\shell32\enum.cpp  
 InvalidateDriveType 3  
 796 C:\ie5src\PRIVATE\SHELL\SHDOCVW\DESKTOP.CPP  
 2941 C:\ie5src\shell\shdoc401\unicpp\desktop.cpp  
 3157 C:\ie5src\shell\shell32\unicpp\desktop.cpp  
 RunFileDialog 2  
 938 C:\ie5src\PRIVATE\SHELL\SHELL32\RUNDLG.CPP *- type - ahead*  
 3132 C:\ie5src\shell\shell32\rundlg.cpp *secret read*  
 SHAbortInvokeCommand 2  
 2936 C:\ie5src\shell\shdoc401\unicpp\dde.cpp  
 3152 C:\ie5src\shell\shell32\unicpp\dde.cpp  
 SHCreateLinks 3  
 925 C:\ie5src\PRIVATE\SHELL\SHELL32\DOCFINDX.CPP  
 3100 C:\ie5src\shell\shell32\defcm.cpp  
 3108 C:\ie5src\shell\shell32\docfindx.cpp  
 SHFindComputer 4  
 925 C:\ie5src\PRIVATE\SHELL\SHELL32\DOCFINDX.CPP *- thread*  
 2936 C:\ie5src\shell\shdoc401\unicpp\dde.cpp  
 3108 C:\ie5src\shell\shell32\docfindx.cpp  
 3152 C:\ie5src\shell\shell32\unicpp\dde.cpp  
 SHGlobalDefect 2  
 2936 C:\ie5src\shell\shdoc401\unicpp\dde.cpp  
 3152 C:\ie5src\shell\shell32\unicpp\dde.cpp *Win Fax Pro*

shell32\_maybe.log

SHHandleDiskFull 3  
 796 C:\ie5src\PRIVATE\SHELL\SHDOCW\DESKTOP.CPP  
 2941 C:\ie5src\shell\shdoc401\unicpp\desktop.cpp  
 3157 C:\ie5src\shell\shell32\unicpp\desktop.cpp  
 SHLogILFromFSIL 4  
 167 C:\ie5src\PRIVATE\SHELL\COMDLG32\FILENEW.CPP ✓  
 2016 C:\ie5src\shell\browseui\onetree.cpp  
 2054 C:\ie5src\shell\comdlg32\filenew.cpp  
 3451 C:\ie5src\shell\win16\comdlg\filenew.cpp  
 SHOutOfMemoryMessageBox 1  
 3186 C:\ie5src\shell\shell32\util.cpp  
 SHRegisterDragDrop 2  
 923 C:\ie5src\PRIVATE\SHELL\SHELL32\DEFVIEW.CPP ✓  
 938 C:\ie5src\PRIVATE\SHELL\SHELL32\RUNDLG.CPP  
 SHRevokeDragDrop 2  
 751 C:\ie5src\PRIVATE\SHELL\SHDOCW\BASESB.CPP  
 2972 C:\ie5src\shell\shdocw\basesb.cpp  
 SHWaitForFileToOpen 3  
 879 C:\ie5src\PRIVATE\SHELL\SHDOCW\SENDTO.CPP  
 2963 C:\ie5src\shell\shdoc401\unicpp\sendto.cpp  
 3178 C:\ie5src\shell\shell32\unicpp\sendto.cpp  
 SHWinHelp 1  
 3186 C:\ie5src\shell\shell32\util.cpp  
 SHWinHelpOnDemandA 1  
 3214 C:\ie5src\shell\shlwapi\util.cpp  
 SHWinHelpOnDemandW 1  
 3214 C:\ie5src\shell\shlwapi\util.cpp  
 SHWinHelpOnDemandWrap 1  
 2022 C:\ie5src\shell\browseui\rgtreeop.cpp  
 2111 C:\ie5src\shell\cpl\inetcp1\mainwnd.cpp  
 2231 C:\ie5src\shell\ext\cdfview\proppgs.cpp  
 2993 C:\ie5src\shell\shdocw\dochost.cpp  
 3002 C:\ie5src\shell\shdocw\favorite.cpp  
 3048 C:\ie5src\shell\shdocw\opsprof.cpp  
 3075 C:\ie5src\shell\shdocw\thicket.cpp  
 SetAppStartingCursor 2  
 3113 C:\ie5src\shell\shell32\execute.cpp  
 3186 C:\ie5src\shell\shell32\util.cpp  
 \_DAD\_DragEnterEx2 1  
 2616 C:\ie5src\shell\ext\thumbvw\dllload.cpp  
 DAD\_DragEnterEx 1  
 590 C:\msn\_src\MSNExplorer\XPCLIENT\src\mars\frame\core\dllload.cpp  
 DAD\_DragEnterEx2 1  
 590 C:\msn\_src\MSNExplorer\XPCLIENT\src\mars\frame\core\dllload.cpp  
 SHWinHelpOnDemandWrap 1  
 597 C:\msn\_src\MSNExplorer\XPCLIENT\src\mars\frame\core\iforms.cpp  
 \_DAD\_DragEnterEx2 1  
 590 C:\msn\_src\MSNExplorer\XPCLIENT\src\mars\frame\core\dllload.cpp  
 \_DAD\_DragEnterEx2 1  
 590 C:\msn\_src\MSNExplorer\XPCLIENT\src\mars\frame\core\dllload.cpp

desktop browser and proc

register dialog box + edit control as drop target

SHWinHelp On Demand  
 not just plain wrap?  
 where impc?

also unde!

Missip any \*h\* ignoing from MSOE.Dll

Possibly undoc APIs in MSOE (msimn)
All from xpsrc\sid9238\inetcore\OutlookExpress\
Didn't find any in ie5src\PRIVATE\INET\ATHENA

INSETREL, 2
INATIF App Start
IWinEvent Handler
IInitWeb Linked Web OC

- GetUIVersion 1
199 inetcomm\common\attach.cpp
IID\_IWinEventHandler
360 mailnews\common\itbar.cpp
390 mailnews\common\tbbands.cpp
IID\_OLEDBSimpleProvider 2
443 mailnews\om\oedocs.cpp
445 mailnews\om\table.cpp
IStream\_Write\_Scopes 2
515 mapitest\sample.cli\mapidbg.c
732 wabw\wabapi\mapidbg.c
MLGetUILanguage 3
287 inetcomm\mimeole\internat.cpp
346 mailnews\common\fonts.cpp
382 mailnews\common\spell.cpp
OLEDBSimpleProvider 2
443 mailnews\om\oedocs.cpp
445 mailnews\om\table.cpp
OLEDBSimpleProviderListener 2
443 mailnews\om\oedocs.cpp
445 mailnews\om\table.cpp
SHPindlOfCLSID 1
97 AutoDiscovery\client\ACemail.cpp
addOLEDBSimpleProviderListener 2
443 mailnews\om\oedocs.cpp
445 mailnews\om\table.cpp
removeOLEDBSimpleProviderListener 2
443 mailnews\om\oedocs.cpp
445 mailnews\om\table.cpp

complete code

1993-6 "Athens browser" code
main band.cpp
has CMAINBAND overrides
IWinEvent Handler

- Add Email Auto Complete,
re: SHAuto Complete?
3/1/2000
auto complete for email addresses

Schulman\_IA 0727
Highly Confidential

Get SHOLEDB

Search for "Private API"

shresip.h
winuserp.h
shellp.h
napi.def

shresip characterized as "API"
shpriv

winuserp.h "Private" for user component
"Private API" - Is Hung App Window
Registers System Thread

SH Is consistent API
SH Reflex Settings - IES
SH Copy Moniker T.Temp - Get list
Get Download Copy Data Loss Text? - IES

Page 1

resipi DOC
SH Object Properties 178
SH CreateDef Class Object 70
SH Get Net Resource 69

just wrappers, exec ?

msntok.log

Possibly undoc calls in MSN -- see c:\msn\_src

CLSIDFromProgIDWrap 1  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp  
DeleteMenuWrap 1  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp  
GUIDFromStringA 1  
673 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\mlwapi.cpp  
GetLongPathNameWrapA 1  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp  
GetUIVersion 1  
590 MSNExplorer\XPCLIENT\src\mars\frame\core\dllload.cpp  
IUnknown\_Exec 1 - *MSN has imple*  
673 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\mlwapi.cpp  
IUnknown\_QueryStatus 2  
640 MSNExplorer\XPCLIENT\src\mars\frame\core\toolbars.cpp  
673 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\mlwapi.cpp  
ORD\_MLGETUILANGUAGE 1  
1090 MSNMessenger\XPCLIENT\src\b1\msbl\msblapp.cpp  
PFNMLGETUILANGUAGE 1  
1090 MSNMessenger\XPCLIENT\src\b1\msbl\msblapp.cpp  
SHAnsiToUnicodeCP 3  
611 MSNExplorer\XPCLIENT\src\mars\frame\core\msgnot.cpp  
674 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\uniansi.cpp  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp  
SHAnsiToUnicodeCPEX 2  
674 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\uniansi.cpp  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp  
SHChangeNotifyWrap 1  
672 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\e\_notimpl\_thunk.cpp ??  
SHGetCurColorRes 1 - *MSN has imple*  
673 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\mlwapi.cpp  
SHInterlockedCompareExchangePointer 1  
906 MSNExplorer\XPCLIENT\src\mars\setup\richui\utils.cpp  
SHUnicodeToAnsiCP 3  
674 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\uniansi.cpp  
711 MSNExplorer\XPCLIENT\src\mars\lib\xml.cpp  
874 MSNExplorer\XPCLIENT\src\mars\setup\mangen\mangen.cpp  
SHUnicodeToAnsiCPEX 1  
674 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\uniansi.cpp  
TrackPopupMenuExWrap 1  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp  
TrackPopupMenuWrap 1  
675 MSNExplorer\XPCLIENT\src\mars\lib\clthunk\unicwrap.cpp

DOC API

SF Create shell Folder View

ies src isf.cpp

(sfview.h)

✓ folder.cpp

vstelp.h

vtrootx.c

✓ sfvcnpt.cpp - has SFCreateFromFolderViewEx  
impl around SCSEV;



①

MS source code inspection  
@ Belle, SF

Mon Aug 21, 2006

3 boxes + 1 envelope

Box 1 ~~was~~ accessed:

- ① W58 (old) [Java?] - don't access for  
6/28/2006 now [14 CDs in  
MSM-IA-265 (replacement) other box) -  
MS-PC AIA 550131J more to other  
box
- Produced by MS to Netscape, Matz MDL
- MS-CC-NET 000000043721 (5 of 14)

- ② IE S.O. sources for mainnet [from Bristol aka]  
MSM IA 311  
MS-PC AIA 550135V  
MSB-CD 00003

- ③ LITHO  
MSM IA 310  
MS-PC AIA 550135I  
MSB-CD 00002

Box 2 (Light House Document Technologies)

④ XA RTM B 2600 - source  
 MS D1 0000356  
 MS-PCATA 05501348; Disc 2 of 3  
 MSN-IA 298 Disc 1 of 1  
 6/15/06

⑤ "source code" - for what?  
 MS-CC-BU 376947; CCBV-071  
 MS-PCATA 00501349  
 MSN-IA-299; Disc 1 of 1  
 6/15/06

ND

also:

- 6 CDs of XA RTM B 2600 X86 Binaries
- 5 CDs of XA Home + Pro OPK
- 14 CDs of W98 (Gold) source
- 6 CDs of W95 (incl. OSR 2, 2.1) source
- 2 CDs - Direct X 8.1 SDK [source?]
- 1 CD - Windows Media format 7.1 SDK
- " - Media Rights Mgr 7.1 SDK
- " - Media Player 7 SDK

Schulman\_IA 0731  
 Highly Confidential

⑥ IE 1.0 source  
 MSN-IA-299  
 MS-PCATA 5501307  
 MS-CC-NET 0041617

⑦ IE 2.0 src  
 - 260  
 - 1308  
 - 43710

(3)

⑧ icbld - dist - ve 40158 2src \$ [IE 4.01 source?  
MSM IA 258  
MS - PCAIA 5801306  
MS - CC - NET 00 59985

box 2 also 2 CDs marked "danger",  
"Nimble views", "corrupt" w/ sketch + some lines

box 2 also 1 DLT tape: "source code",  
MSM IA 281,

⑨ MS PCAIA 5501329  
MS - CC - NET 55479  
6/15/06

- not described in letter 6/15/06 from P.G.E.

Box 3 (-lighthouse)

Schulman IA 0732  
Highly Confidential

all other from letters:

Bambi + logs (SIA)  
Win 31 beta  
Fur East, Humpel  
RAID databases  
MS SWS  
SD/CS, MSDN  
Plaintiff exp.  
Component  
DR - DOS, source

Quick Pascal  
Humpel DOS 2.25  
WFS Real mode file system  
MS-DOS source  
WFS Real mode source  
WFS IFSTEP source  
Win 30 source  
MS-DOS 4, 5, 6, 6-22 source  
Win 3.1 source

	MS-PCATA	MSC	MSN-IA (4)
(9) - Win31 source	5501181	5081818	117
(10) Win95 source	1182	81819	118
(11) MS-DOS 5.0 src	1183	81820	119
(12) Win95 IFS HELP src	1184	81821	120
(13) Win30 source	1185	81826	121
(14) Win95 rmode	1186	81860	122
(15) Win31 src	1187	-	123
(16) Win95 rmode file sys	5501221	5081860.1	157

UPS envelope has 1 CD <sup>marked</sup> / LATONX VINT

X1 RTM build 2600 - source  
 "Disk 3 of 3" - where Discs 1, 2?

CD "2600SRC3"

2600src4.cab 266 MB

2600src5.cab 84 MB

65,363 files 1.6 GB

→ 11,073 files 303 MB

→ 11,073 files 303 MB

EXPLORER hangs trying to extract  
 src extract.exe

Where 2600src[1, 2, 3...].cab ?

[  
 src 5 has windows\advsrc\dwset  
 src 5 has windows\richedit\lssrc\lsthxx.c  
 no vgx

(5)

Use Google Desktop for indexing  
yes, finds \*.c, \*.cpp  
eg "undocumented" → debug.tricks.doc

Core Apps

"not ready, but we have to do it to support

our apps" core\ntgdi\client\output.c

"basic applications like WinWord"

core\ntuser\kernel\winsta.c

"undocumented ... alg to used in our internal product" & sdktools\mcmmsg\mcmmsg.c

"so that WinWord II people can continue to abuse undocumented functions"

core\ntuser\kernel\mnpoprv.c

"Microsoft apps" } φ (index 37% complete)  
"ms apps"

"stolen from Exel code" rtf.h

- also check "borrowed"

"copied from" ?

"integrated" ? "integrated-shell" dllload.cpp

PLATFORM - INTEGRATED dl-runks.c

"bundled" ?

- deck MS v nm - MS
- lotus
- Corel "fix for"
- Word Perfect
- Symantec
- Adobe
- Netscape
- Novell

Oracle

"MS trusted applets" utilman.c

"trusted apps" Ø

"trusted applications" Ø } 55% complete

"MSO"

"steal it from office's cod (ms0\...) " real.cpp

"office art chunk"

spngwrite ms0... .cpp  
metaWmf.cpp

"not documented"

re Adobe, "through reverse engineering" adobe.htm.cs

"reverse engineering" ⊖ filetype:txt

OE4 } MS Outlook Express  
OE5 }

S-OEY-APPDETECT eg ren reg fn.c

emails? search for "Subject: RE."  
Windows \winstate\doc\email\testing-priorities.htm  
- directory has \*.rtf  
makeglst.c "read this email thread." "hack"  
pagnoncrit.c "see... by #100541 and its log  
email thread for solving this problem"

bug hack security fix kludge hacky ugly  
workaround  
hosebag stupid dumb broken [but not broken up,  
broken out, ties broken, etc.]

"Internet Explorer"  
"Windows Media Player" } error msgs?  
etc.

requirements on DLLs eg MHTML, WAVECORE?

IMSO\*  
IVg\*

SHChangeNotify - "family of apis"  
scrotify.doc

Author: zekel  
Manager: cheechew  
Created 8 Jan 98

PRINT ✓

shell \docs\  
shell dev.doc

api  
internal api filetype: doc  
undocumented

DPA }  
DSA }

Windows\richedit contains %src%\ms\31.def

IShell \*  
SHCreateShellFolderViewEx

MAPI who.cpp

SDM src\src.h  
classmap.cpp has boss\_sdm vpin #ifndef  
syscmd.c change for Excel SDM

Also Compact Manager etc. ? -ø (S12)

office bug  
" " hack  
? workaround } sepilayr.h  
"hack up for office"

office.h ?

SMB smbtrans.h



MsoF Exit of file (doc??)

9

Google Desktop search index complete @ 4:10 PM

56,586 files

on disk:	C files	4,556
	CPA	6,050
	H	11,174
	DEF	815
	DOC	86
	TXT	900

top file types:

11173	h	
9361	vfm	
7173	pfm	
6047	cpj	
4555	c	
2811	bmp	
2723	is ifi ?	
2457	make file, sources	
1985	rib	
1854	ico	
:		
19	zip	- unzip zip - dir. bat
:		
6	cab	

mslino49.zip is encrypted

diff zip/cab extraction:

11358	h	
6052	c++	
4709	c	
1024	inc	
820	def	
903	cat	
666	cxx	
518	hxx	
337	idl	
310	htm	- xp itself res —
280	hpp	
217	inf	1, 137
209	ini	
93	rtf	
:		
35	awk	

loc. awk to count lines of source code

Types

people missing some? need to build indet!

tok 2. awk finds eg:		
undocumented	42	- boogie 21
undocment	2	- 2
undoced	3	- 0
SHGetViewStatePropertyBag	8	- 1

shlwapi.h  
~~Internal APIs~~ which we're not sure whether to make public"

SHCreateShellFolderViewEx 14 - 0

- |             |                               |
|-------------|-------------------------------|
| tok 3. awk  | tok look. awk                 |
| ✓ adm - inc |                               |
| ✓ c         |                               |
| ✓ cpp       | ✓ tot error line 30           |
| ✓ h         | doc - <u>strings</u>          |
| ✓ hpp       | ✓ rtf                         |
| ✓ cxx       | g XML                         |
| ✓ hxx       | xls                           |
| ✓ def       |                               |
| ✓ idl       | xpsrc - doc. dir              |
| - utm, html | strdoc. bat                   |
| - inf       | strdoc. dir - add. to         |
| - ini       | ✓ ppd? spd?                   |
| ✓ rc        | <del>ofm? pfm? ifi? bin</del> |

template.c:

CTemplate folder:: CreateViewObject ->  
SHELL\_FOLDER View Ex

12

DOC??

IShellFolder:: CreateViewObject - when doc?

NO, NOT PASS THROUGH - DefView callback

Finding lots of MSO  
doc host.cpp  
activate MSOView etc.

input.c

MSO

fix for Word Perfect write

WMP?

code calling WMCreateReader in shell... ext  
but not code implementing it

DirectViewing

Windows \ advcore \ directvi \

Schulman\_IA 0741  
Highly Confidential

re: GADGET

directory of DOCS in HTML

"Internal one"

Windows \ advcore \ duser \ docs \ api \ \*.htm

HACKHACK

Makefile

but of Explorer

Makefile almost blank

makefile ~~something~~ - establish obj dep??

make -f to make.mak →

\xpsec\public\srk\lib\makefile.txt

every file built by NT wild lib.

lists Vsx.dll, user.dll, mls31.dll

msows409.dll ; office Name space extension

add -ccc to hklork.mak

— just a few  
— component - description.h

Makefile  
→ sources

make files.mak

→ make files.dep.db

Find IE source

NO - of MSHHTML calls UnlockURLCacheEntry file  
only hit in wininet.h

IE 5.0 sources for Minisat cds  
IESSRC.TAR 367 MB  
PUBLIC  
PRIVATE } ← different

(19)

Virus? from tar  
ieSSRC\Scripts\doc\dispec.doc

IESSRC - "undocumented" etc. search after index

DOC ✓  
XLS  
PPT

MSLS in IE5, MSHTML

"significant" disk space

Schulman\_IA 0743  
Highly Confidential

check MS-DOS 6 source re OS/2 mss?  
"considerable disk space"

"OS/2 Files Detected"  
detect.c

Compressed  
Extract  
Arms?

ASiWfM NTOS2boot  
PS2 OS2  
PS2 OS2boot file 1 / 2 / 3

~~md-text.h~~ ~~not~~ ~~elsewhere~~ ~~in~~ ~~code~~  
don't understand

OS2LDR, OS2KRNL, STMP.CAP

AsiWarn NTOS2 boot

1201	129	7.1.
1235	157	7.1.
1370	248	Creating
1267	183	detected
1223	177	format
1221	145	
1247	167	
1257	175	

"API hardening" ?  
 eg Shellcode shell folder view/Exp  
 can't find implementation

DPA - Create

Was done quickly after GetFile C on Dave M blog  
 so now "hardening," or was already?  
 \ic5src\private\shell\comctl32\da.c

MSRC MSCS already param validation

- LSC;
- LSSE
- etc.

PSETID - MAPI etc.

OUTLOOK EXPRESS

MSOE api. h

S-OFFICE - COMPONENT

opm.c

Fri, Sept 8

return to table for remainder of XP source  
+ file source (password)

- redo indexes of XP source to include previously - missing code.
- index MSO source.
- look for following in MSO:
  - DVRS, Native V2Hwnd ?
  - MSLS
  - SEO, IEvent..., Imu ... - msonext
  - IDirect - msorvn
- look for following in XP source:
  - VBX INSO
  - other INSO, esp -> DocObj
  - MSOE / MAPI PSETID





TODO:

(17)

- get full API imports by office
- IE, MSOE, WMP ordinal imports,  
exp shdocvw from shlwapi  
SHGetObjcatCompatFlags  
SHGetVerWorkStation  
MCLoadMUIInstance  
SHSimulateDrop  
SHChangeNotifyWmp  
:
- if time, redo JB W95 v W31 code comparison:  
exp why <sup>JB</sup> see so much real-mode code?
- hardening of shlwapi APIs?



Office XP 2002

(18)

8/23/06

MS-PC A1A 5501391

MSA-IA-375

2, 651, 907, 379 b office xp.zip 8/29/06

pkzipc -dir - 65, 535 files (!)

[pkzipc not handle very large zip?]

Explorer hangs? - NO, BUT VERY LONG TIME

Get new Win Zip V9 + results look wrong?

NO. Word, NO  
small (1.6 MB)

pkzcr84007rn.exe -error

password (9/6 email): m-s-c-c

New PKZIPC sees xl?, Word?, etc.

14GB 105,682 files

password not required??

stop, for word only do :c, .cpp, .h ...

offscr.dir

.c, .cpp, .h, .hpp, .cxx, .hxx

-also do .inc, .idl, .def, .txt

not others for now

tok3

c-	✓	2985	idl	- 161
cpp-	✓	9129	txt	- 1219
h-	✓	7620	def	- 862
hpp-	✓	176	sc	

- from off Google Index  
Emporish

(19)

Does office source include msonsect?  
ofools / swamp / x86 / dehus / msonsect.pdb  
/ ship /

msonvun?  
ppt / wild / x86 / ship / dlls / msonvun.pdb

mso.pdb?

dumppe - disasm msonsect.dll	} dll/pdb kinds
+ .pdb	
grep IEvent msonsect.asm ✓	}
5E0	

do strings on mso.pdb, etc. - mso\_pdb.u

\xpsrc \public \internal \inetsrv \seo.idl

msonsect - mson5409

MM

~~finish office index~~  
~~look at XP source merged~~  
look at IE7 source - next time  
etc

(20)

[PKZIP warning reading XP RTM zip

Office 2003 zip on USB drive  
MSM-1A-327  
9/1/06  
MS-PCMA 5501393  
UK PKZIP - password =  
has msosext.h  
About 62,000 \*.c, .cpp, .h, .hpp, .idl, .def, .txt, etc. files  
~ 1.3 sig

Missing: how many symbols of in  
msos.pdb, msosext.pdb, etc. missing?

msosext.pdb not match. API available  
msosext.24

Thu 9/14

(21)

TO DO:

- ~~1) recheck XP source DVD - drive layer - drive??~~
- ~~2) if can <sup>ZIP 10.0</sup> index XP src, ~~on~~ ~~not~~ index \*.\*~~
- 3) Office source: IIS Component Manager description
- 4) Office source: <sup>web folders?</sup> MSONEXT + SEO? see \*.PDB
- 5) if XP src, find IE + WMP ~~etc~~ - error msg / check?
- 6) Office: list all APIs + interfaces
- 7) Office PDB: match of binaries??
- 8) "hardening" of SHLWAPI APIs?
- 9) look at code for eg shdocvw → shlwapi; <sup>coll:</sup> why
- ~~10) find all IIS in XP src~~
- 11) revisit JB WINGS full v prot experiment?
- 12) look at XP src: MS OE - <sup>PSETID</sup> RAPI, HTTPMail?
- 13) lists of all orb-only imp?
- 14) look through comments re "undocumented", "ms ag" etc.
- 15) MSO + VB VBA in XP?
- 16) Narrator, ITS + WMA? DirectShow? WINMM?
- 17) XP support for MSO vs. support for non-MS
- 18) VEX in XP w/ MSO IVg, VAL, VEX...
- 19) Undoc in regist DLLs, eg GDI + ?
- 20) comments to show OS source difference from doc
- 21) Outlook Express → Outlook / Voice
- ~~22) WMP source?? multimedia network ... ~~WPA wmpayer.pdb~~~~

XP SFC  
 WinZIP 10.0 didn't work directly on drive D:  
 " " " " drive E:  
 can't copy F

some  
 files -  
 large

(22)

couldn't copy from D: to C:  
 but could copy from E: to C:  
 & WinZip 10.0 now working on C:

→ 366,785 files  
 13.89 gig  
 100, vsb directories

index

C	31,619 files
CPP	28,951
H	68,135
HPP	1,139
CXX	8,640
HXX	5,962
IDL	1,913
RC	8,420
TXT	5,371
DBF	4,645
REG	
DOC	1,616
PDB	4,593

✓  
 ✓  
 ✓  
 ✓

} → list first

xpsrc 2600 - def - .h

use DEF to locate components & ✓

(23)

but how  
low  
school  
part  
of  
XP?  
Bennett  
mentioned  
winapi  
but  
Bennett  
is  
also  
win.  
office,  
so  
...

① VGX

sid 9238 \inetcore\vm\ms\oa\vgxparse

ms\9\imports.cpp

.h

parse.h.c

\inetcore\vm\ms\dr\dr\pinfo.txt  
"BUIP = Big Large Image of Picture"

② DUSER

sid 9238 \windows\advcore\DUser\Engine\DUser\DUser.def

DirectUI\old\Engine\DLL...

" \New\DLL...

GetGadget etc. identified in DEF as "WinAppZ"  
(Phone Build Animation etc. merely as "Ctrl")

... \windows\advcore\DUser\Docs\api.hcs  
still \* .hcs, e.g. sendGadgetMessage

correlate .vj ones

TODO: ~~find~~ used by MSN, IE7, etc.

③ MSL5

windows\tricketit\lsrca\msls31.def

lscreate.c - ls create live, etc. identified as

"An exported LiveServices API"

④ MSOE - inetcore \ outlook Express

→

inetcore \ outlook Express \ exhost \ exhost.cpp

has IASO Component Manager

Make sure  
not just for  
outlook import

inetcore \ mshtml \ src \ outlook \ mshtmlol.def

- outlook Background Spelling Extension
- in MSHTML?

IOUTLOOK EXT callback

→

IOUTLOOK EXT Interface

only spec  
in mshtml  
re playlist

— find amount source

→ ⑤ WMP - no WMP, WMV ???

multimedia \ media \ mplayer2 \ mplayer.def

media \ winmm \ winmm.def

\ msacm

\ mci ole

\ avi

... etc.

multimedia \ ds.how \ vidctl

\ directx \ music

" \ dplay

\ dsound



⑥ IE shdocvw - no def?? code in shell\shdocvw  
 mshtml - inetcore\mshtml  
 shell\ieframe\ieframe.def  
 shlwapi - no def?? code in shell\shlwapi

⑦ other "mso" file names in XP source:  
 inetcore\mshtml\src\site\base\formmso.cxx  
 \core\cibase\basemso.cxx  
 - Implementation of Idle Command Target  
 MSOCMD?

→ ⑧ grep mso xpsrc cpp, etc. xpsrc\_cpp\_mso.log  
 also need to do Lotus, WP, etc. &  
 "Office", "Excel", "WinW", "PowerP", "Outlook" (not Exp)  
 fMsoDocMode  
 by MsoCommandTarget  
~~Shell~~ MsoView (DocObj)  
 shell\entmon  
 inetrv\query\Filters  
 shell\ext\docprop

XP src inetcnre =

iedl

iehtml

java

mshtml

Outlook Express

Aspxport

⋮

urlmon

url

- incl ... vgx.def

Webcontrols

winhttp

wininet

Where VBX used in XP?

Outlook Express + MSO - make sure not just for import, file errors, etc.?? not in "import" directory

inetcnre\Outlook Express\mshtml\extinc\msouser.h

Dave Pa

"required for apps to use the Office DLL"

MSO F Init office → HMSOINST

IAsUser

re "sbm"

VML in OE?

(27)

inetcore\outlookexpress\inetcomm\mimcedit\body.cpp  
re "vector" - ~~the body.cpp~~

Thu Sept 21	index	4,49,706	files
		41,388	C
<del>ADD 2087</del>		50,755	CPP
		92,858	H
		1,585	HPP
		6,409	DEF
		2,570	IDL
WT 4,970	on disk?	(?)	70 PDB

MSO.DEF  
 Ls = ① 532-586 see ~~ortho~~  
vrvby.c  
 ② 587 ~~lsGetM/RVh~~ Ls methods  
 "The following makes mso.dll into a VSX.dll" ?  
 followed immediately by Golip\* all the way  
 to end of mso.def

DirectVZ fund → xpsrc \... \Host.cpp  
 HWNDElement :: static WndProc  
 " :: WndProc  
 HWEM - ?  
 WM - UPDATEUISTATE ✓

Also in XPSPC PDB

28

	ComAdmin	mts
DW=BT	{ DWIS	ASN - Explorer
Watson?	{ DWWin	publK
	Forms	actfx

msasnent      inetcore \ icde      xp?!

msvbvm60

VB

[ WVC9      admin, smadvise  
 \ Inso Mail \*

SMADVISE.OCX

Windows Visual Components

Setord.cpp to assign nso ordinal #s

"Unpublished" ?

if JB  
 rfp re  
 hardware  
 should  
 be lots  
 give  
 me

WNet GetHomeDirectory -  
 "this is an unpublished function,  
 so it doesn't catch exceptions"

userdir.cxx

DirectV1

(29)

oldest date appears to be ~~1997~~ 1998

6 files in xpsrc\2600\...

dir\directv1\

priv.h

re: shgins.du ?

= Logan

[next time, set version control!]

xpsrc\2000:

1999: xpsrc\...\directv1.h

9/12/2000 MarkFi created

= Mark Finocchio

windows Logon application

, directv1.cpp

1999 - 117 xpsrc files, none office

- no mention office

DirectV2 created for W. Logan?

but is \off2003src in index?

different ?

\off2003src\ofarts\inc\netv1\DirectV2.h

8/12/2002

re: "NetV1 Engine"

hwwhost.cpp

30

Resource Manager.cpp XPsrc  
4/18/2000 JStall

publicchanges.txt

XPsrc

internal\windows\inc\user\directui\pp.h

MarkFi

user.gm

JStall

Gadget.h

JStall

~~Direct~~ off 2003 src \tools\inc\netui

netui\platform\ui\inc

Net UI \*.h

Net UI \*.h

Net Pane.cpp AS  
2001 Access  
Sgardner

XPsrc - ~ 7/2001

offsrc - ~ 8/2001 - 8/2002 ??

off 2003 src \netui

shelobj.h IPersistFolder3

(31)

DPA - Cool stream

DA.C

↳ how path validation IS\_VALID\_WRITE\_PATH, etc.

\\iesrc\private\shell\comctl32\da.c

→ inetore\FullTime Express\...\dpa.h

SFCreatShellFolderViewEx

~~Rich Folder~~ richlv

Implem. in sfvcnpt.cpp

Where SFCreatShellFolderView?

DirectVkr, DirectV? - UXHERE

Actui.dll??

shelobj.h

2002.08.25

rob men

off 2003 src... |d vti

2 "HACK for Whittier, will remove when

DirectV? goes DU"

SFVIA-WEVIEW-THEME-DATA - mostly in Xpsrc

\* [ Resource Manager. cpp <sup>.h +</sup> all offsrc (32)  
 office : McRider 2000  
 xpsrc: ~~Resource Manager. h~~ Jstale 4/18/2000  
 all xpsrc

Friday 9/22

1750 GDI+ before doc?

first newsgroup mention GdiPlusStartup = My 11, 2001

GdiPlusStartup in office Resource Manager. cpp  
 Jstale 4/18/2000 header  
 forwards to p of file

GDI+ startup in xpsrc gdi+ critsec. hpp  
 3/17/2000 Asccchi9

GDI+ init in xpsrc gdi+ initialize. cpp  
 12/02/1998 andrewgo

Flatapi. cpp 12/13/1998 davidx  
 1998 - all xpsrc

1999 - only 1 of 12 files is office:

app. cpp ~~9/19/2002~~ 1/29/98 Jy P. Hester



strings.c - IES src TweakUI <sup>toy</sup>

?!

"To impede reverse engineering, we encode all politically damaging strings so that a 'strings' won't reveal anything incriminating"

eg "names of weird bugs we need to hack"  
TWEAKUI.HLP, .CPU

Searchs

- politically
- damaging
- incriminating
- mostly globalization, TriWan, PRC
- SCSI, display man, etc.
- only w strings.cpp/c

"System Component Redistribution" doc

Sept 9, 1995

Lowry 17 9/5/95, Andrew R, Wes W

"installation of operating system components  
while the installation of the operating  
system itself"

WFP exemptions - "in anticipation of revenue  
losses"

eg MS Money + mdoc.dh

connect?

also lock d. doc, "System Locked Down" re "DUI hell"

skdrcvw / braskvi spst  
POSTPOSTSPUT

~~lots of junk emails~~

no consistent headers, change lgs, etc.  
37,200 cpp files re "copyright" ; 31,147 C  
29,751 cpp files no ; 15,119 C

Back to GDIT history

no msg < 1/1/2000 re "gdipius"  
8 in 2000

10/13/2000 re VC++ samples :

Quickstart \ WinForms \ Samples \ C# \ gdipius

9/25/2000 also re GDIT samples

Oct 23, 2000 re real GDIT app

"pretty sparse" - Mark Bandler

http://www.aspfree.com/quickstart/winforms  
archive.org earliest is 2003

WinForms GDIPPlus.apx archive.org  
gdipmgd.cm

Brian Papin: Office 10 not get to VC  
flat native API vers of GDIT  
bandler, papin never not in source

but windows Gdiplus Plat.h ?  
eg Gdiplus Create Bitmap from scan  
see ref to "Platops" in off src

(35)

Andrew Godfrey  
GDI+ overview

8/18/99

office build: GDI+STAT.LIB - "want to keep the  
static library as similar as possible to GDIPLUS.DLL  
In particular, office must use only the GDI+ APIs,  
GDI+ internals are not of bounds"

~~Copy destined~~

GDI+ Design Spec

hooked

= Hock San Lee

10/28/1998

first draft 7/2/98

real. hpp - GP

"The following stuff is taken from office code"

msoplue.cpp

Brian Wan 1997, ostrman

in XPSRC

Using MSO "mso static link library" ?

- FInitMSO

in XPSRC - PCHealth

EMF + @ office?

xpsrc meta w/f cpp

IS office AT Date ()

"TNPP0A"

off src get w/f cpp

Nang Wo

Enhanced Metfile Player

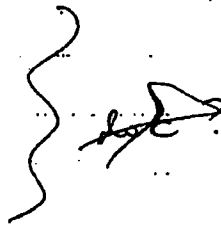
metfile cpp

4/14/99 Dwrts

signature 0x 2B464D45

dwr 0x 4C415514

EMF+ ~~for~~ key 0x 594C4E4E



~~EMF+~~  
DUAL  
ONLY

EMAPWS - SIGNATURE

emfpluss.doc

GD2 + metfile design spec

dwrts

4/00/99

xpsrc

off ngs:

ngsi

ngsj

ngsm

g selgp draw.cpp

As hesh B

Nang Wo

g Gdip Set Path Gradient Preset Blend

Thu Sep 28

37

MSLS history

is "LS Envum Line"

is MISC. CXX in ic5src + xpsrc2600

owners: Chris Prater, Sujal Parikh

Chavara worked ~~2/15/98~~ 01/15/98

but uses, doesn't imple, LS Envum Line

imple in lrenum.c

Contact: Victor K

~~file mod date?~~

f geometry needed

Envum Subline Core

Found? file in offsrc, xpsrc, xpsrc2600

offsrc has 1998 mod date, xpsrc vers 2001 - Y

measure.cpp - Murray Sargent et al

in xp richedit

enumerate missing code?

missing. awk

pub. dir, dir. dir, def. dir

src files, awk

from filenames inside PDBS

top missing ref from PDB - srcfiles.srt (38)

ce - hrs

ce - svr

Wmsearch channel redist

MarLib

8-struct

nsf v25

-mcharset

bnpk

Redo, just look in PDB for .c, .cpp, .cXX

srcfiles.out

→ srcfiles\_c.out

No, just .c\* miss obj, lib

how  
compare  
w/ KP  
office dir?  
15

MS-DOS 6.22 v. Win 95 DOS 86

free ";" as space

		<u>Overlap</u>	<u>New</u>	<u>Gone</u>
	DOS	60-71 <del>57-66%</del>	39-41 <del>42-43%</del>	28-31 <del>33-36%</del>
io.sys	BIOS	34-53 <del>32-45%</del>	65-68 <del>67-69%</del>	45-50 <del>51-55%</del>
	CMD	58-83 <del>57-79%</del>	41-43 <del>42-43%</del>	17 20%
	DEV	78-141 <del>74-106% (!)</del>	21-22 20%	13-21 <del>18-23%</del>

1 file - ROOT

MS-DOS 5.0 v. MS-DOS 6.0

	DOS	94- <sup>100</sup> <del>103%</del> (!)	57%	0-1%
	BIOS	66-100 <del>67-98%</del>	33-47 <del>37-44%</del>	4-5 <del>5-6%</del>
	CMD	58-108% (!)	78%	13-14 <del>11-12%</del>
	DEV	57- <sup>120</sup> <del>82%</del>	42-45 <del>47-49%</del>	18-23 <del>24-26%</del>

ROOT