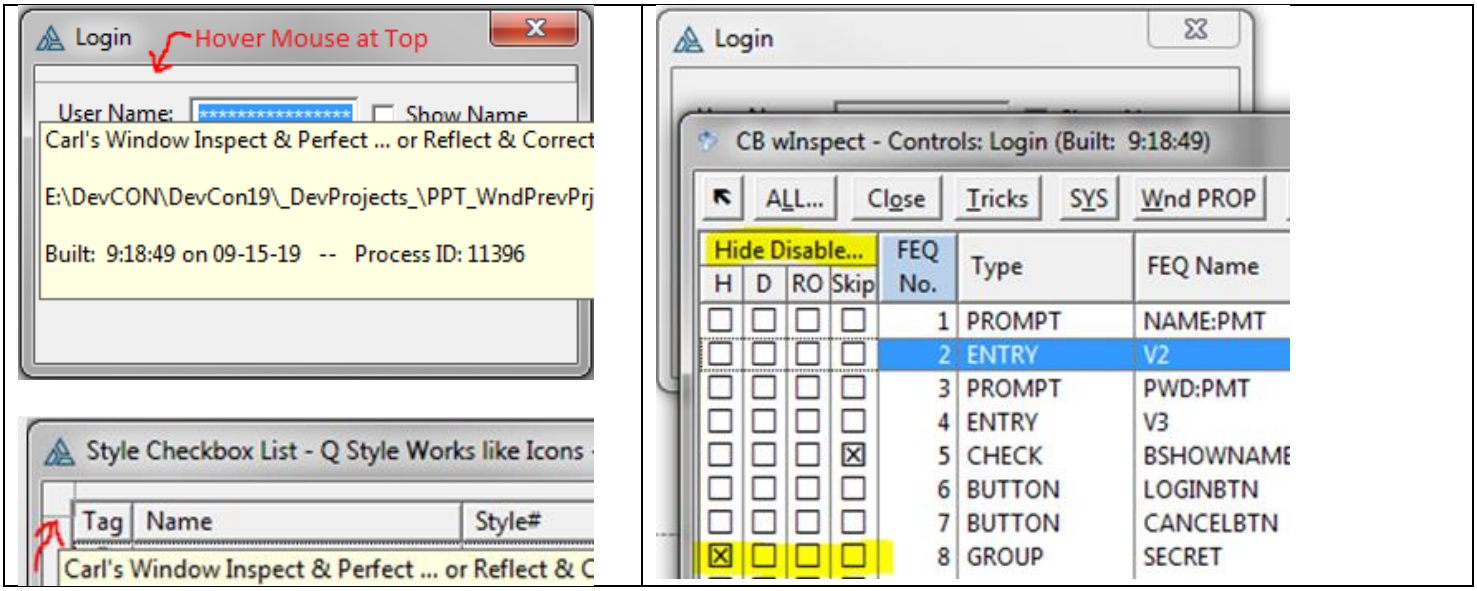
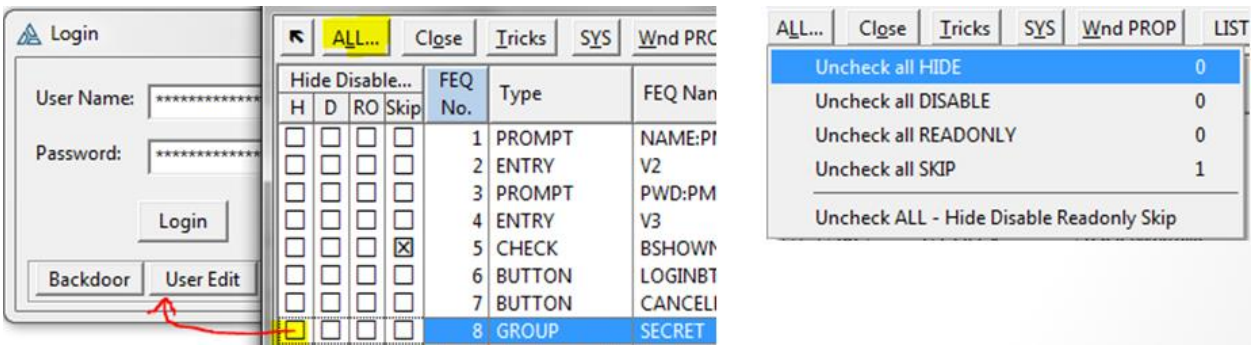
CB Window Preview Class Guide

Install instructions are at the end. Near the end are also the instructions for adding the Class to a live (non-preview) Window to Inspect at runtime.

When you generate a Window Preview hover your mouse at the Top-Left and a Secret Flat button will popup. If you specified Init(2) the button will be full width (as pictured). The tooltip will tell you when the Preview was made and its name. Click the Button to open up the List of Controls.

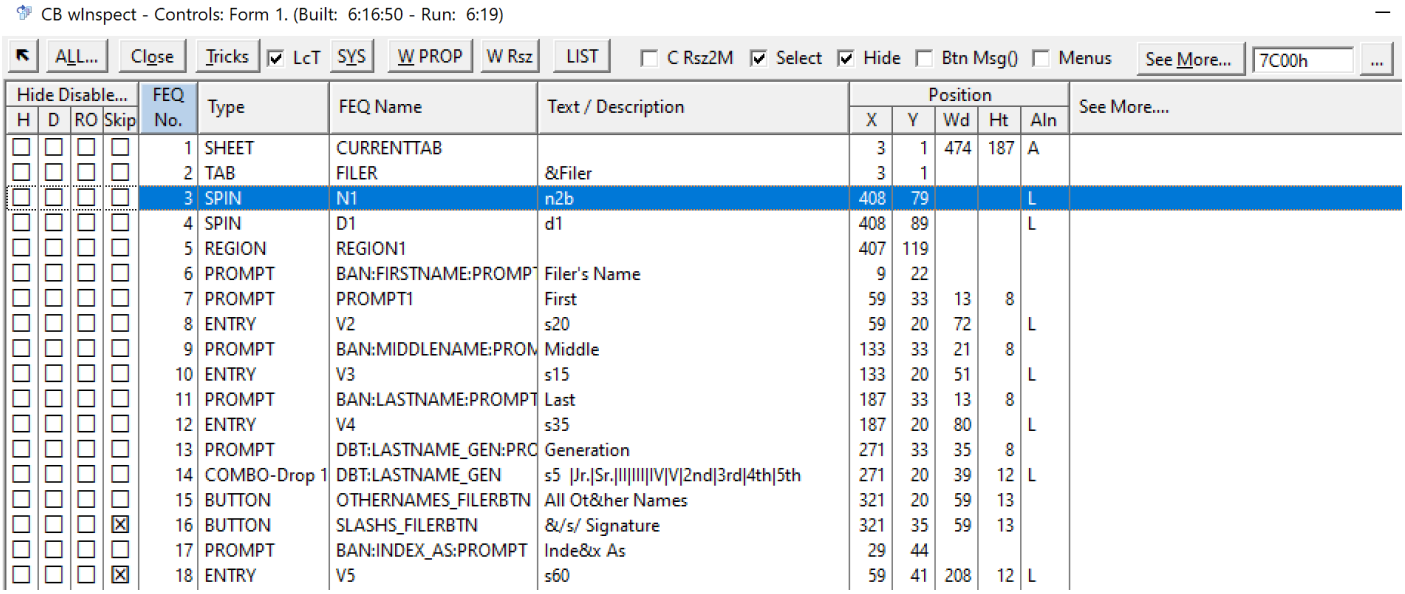


The Check boxes on the left allow Unhide, Enable, Un-ReadOnly, UnSkip Individual controls. The ALL button allows doing them all in one shot. You can hold down Control + Click on the ALL button to “Uncheck ALL”:



List of Controls

The first and main window to open is the list of controls as shown below. You can right click on the list for a popup menu. The buttons and checks have tool tips to explain their use.

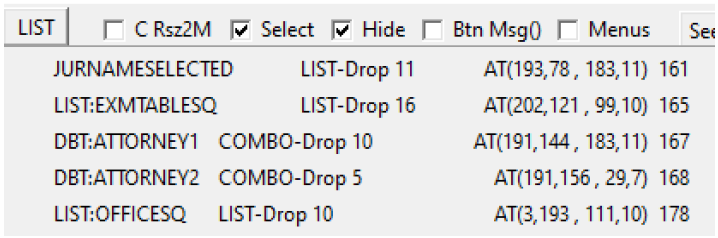


Hide H	Hide D	Hide RO	Hide Skip	FEQ No.	Type	FEQ Name	Text / Description	Position X	Position Y	Position Wd	Position Ht	Position Aln	See More....
☐	☐	☐	☐	1	SHEET	CURRENTTAB		3	1	474	187	A	
☐	☐	☐	☐	2	TAB	FILER	&Filer	3	1				
☐	☐	☐	☐	3	SPIN	N1	n2b	408	79			L	
☐	☐	☐	☐	4	SPIN	D1	d1	408	89			L	
☐	☐	☐	☐	5	REGION	REGION1		407	119				
☐	☐	☐	☐	6	PROMPT	BAN:FIRSTNAME:PROMPT	Filer's Name	9	22				
☐	☐	☐	☐	7	PROMPT	PROMPT1	First	59	33	13	8		
☐	☐	☐	☐	8	ENTRY	V2	s20	59	20	72		L	
☐	☐	☐	☐	9	PROMPT	BAN:MIDDLENAME:PROM	Middle	133	33	21	8		
☐	☐	☐	☐	10	ENTRY	V3	s15	133	20	51		L	
☐	☐	☐	☐	11	PROMPT	BAN:LASTNAME:PROMPT	Last	187	33	13	8		
☐	☐	☐	☐	12	ENTRY	V4	s35	187	20	80		L	
☐	☐	☐	☐	13	PROMPT	DBT:LASTNAME_GEN:PRO	Generation	271	33	35	8		
☐	☐	☐	☐	14	COMBO-Drop 1	DBT:LASTNAME_GEN	s5 |Jr.|Sr.|II|III|IV|V|2nd|3rd|4th|5th	271	20	39	12	L	
☐	☐	☐	☐	15	BUTTON	OTHERNAMES_FILERBTN	All Ot&her Names	321	20	59	13		
☐	☐	☐	☒	16	BUTTON	SLASHS_FILERBTN	&/s/ Signature	321	35	59	13		
☐	☐	☐	☐	17	PROMPT	BAN:INDEX_AS:PROMPT	Inde&x As	29	44				
☐	☐	☐	☒	18	ENTRY	V5	s60	59	41	208	12	L	

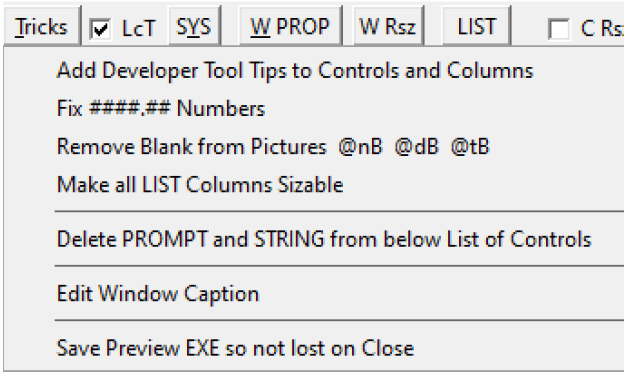
All Lists in the tool have column sorting and color the sorted column blue. The sorting is 2 level with the prior column being the second sort, e.g. click in X column to sort by X, then click on Y and it will be sorted by Y, then X so down and across.

The Position section leaves blank parameters that are default or full. One thing I find a problem on tight windows are ENTRY controls without a width (default), here those would show as blank and could be sorted.

The LIST button pops up with all list controls so that I do not have to scroll to find them. Selecting them brings up the LIST Format window from which you can click PROP to see the LIST Properties.



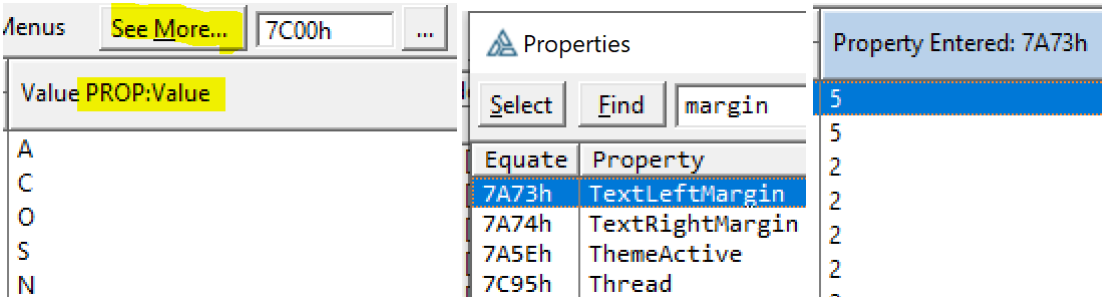
The Tricks menu has several common things I think to do:



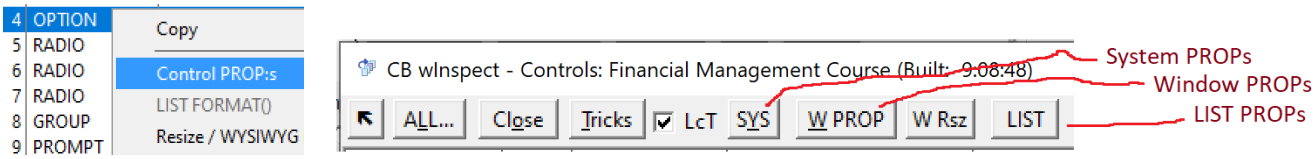
PROP: Inspect (Property Introspection / Reflection)

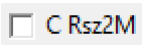
A big part of the tool is to be able to see the PROPs of a Control, Window or System, and their values. Many times before I use a PROP:xxx I want to see what kind of values it has so I write some code. With this tool you can see the values without having to write code.

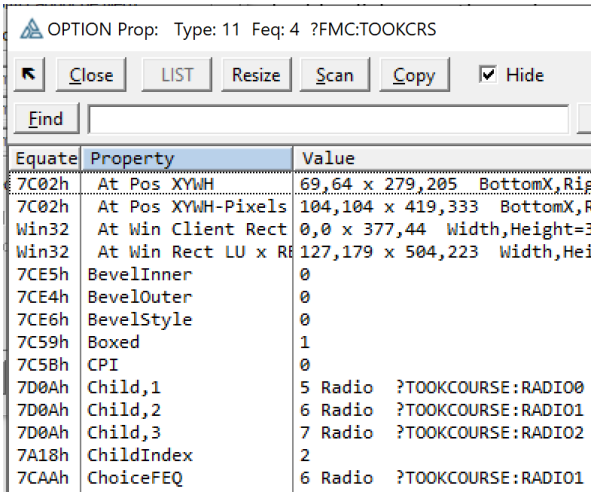
See More – Lets you see the same property for all controls on the window. The […] button has a picker.



Properties for Controls, Lists, Windows, System: You get to these with buttons or right-click or double click. The LIST Props are really List FORMAT properties.

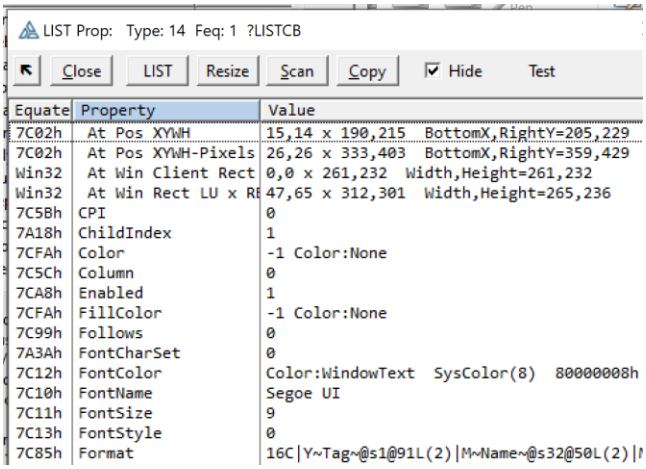


Control PROP: - Right click on any control and select Control Props. You can also double click on the control, except there is the "C Rsz2M" check box  that makes double click open the resizer. For many of the PROPs there is an "explainer" e.g. FEQ numbers show the name; Colors show the Color:Equate.



Equate	Property	Value
7C02h	At Pos XYWH	69,64 x 279,205 BottomX,Rig
7C02h	At Pos XYWH-Pixels	104,104 x 419,333 BottomX,F
Win32	At Win Client Rect	0,0 x 377,44 Width,Height=3
Win32	At Win Rect LU x RE	127,179 x 504,223 Width,Hei
7CE5h	BevelInner	0
7CE4h	BevelOuter	0
7CE6h	BevelStyle	0
7C59h	Boxed	1
7C5Bh	CPI	0
7D0Ah	Child,1	5 Radio ?TOOKCOURSE:RADIO0
7D0Ah	Child,2	6 Radio ?TOOKCOURSE:RADIO1
7D0Ah	Child,3	7 Radio ?TOOKCOURSE:RADIO2
7A18h	ChildIndex	2
7CAAh	ChoiceFEQ	6 Radio ?TOOKCOURSE:RADIO1

Equate	Property	Value
7CAAh	ChoiceFEQ	6 Radio ?TOOKCOURSE:RADIO1
7CA8h	Enabled	1
7CFAh	FillColor	-1 Color:None
7C99h	Follows	3 String ?STRING1
7C12h	FontColor	Color:WindowText SysColor(8)
7C10h	FontName	Microsoft Sans Serif
7C11h	FontSize	8
7C13h	FontStyle	400 = 0190h
7C66h	HLP	~Contents
7C96h	Handle	333062 = 051506h
7C05h	Height	27
7CFDh	LineHeight	8
7A07h	Parent	2 Tab ?TAB:FILER
7A7Eh	Precedes	5 Radio ?TOOKCOURSE:RADIO0
7CFBh	SelectedColor	-1 Color:None
7CFCh	SelectedFillColor	-1 Color:None
7C01h	Type	OPTION
7C01h	Type	11
7CA7h	Visible	1
7CB4h	WNDProc	17165732 = 0105EDA4h



Equate	Property	Value
7C02h	At Pos XYWH	15,14 x 190,215 BottomX,RightY=205,229
7C02h	At Pos XYWH-Pixels	26,26 x 333,403 BottomX,RightY=359,429
Win32	At Win Client Rect	0,0 x 261,232 Width,Height=261,232
Win32	At Win Rect LU x RE	47,65 x 312,301 Width,Height=265,236
7C5Bh	CPI	0
7A18h	ChildIndex	1
7CFAh	Color	-1 Color:None
7C5Ch	Column	0
7CA8h	Enabled	1
7CFAh	FillColor	-1 Color:None
7C99h	Follows	0
7A3Ah	FontCharSet	0
7C12h	FontColor	Color:WindowText SysColor(8) 80000008h
7C10h	FontName	Segoe UI
7C11h	FontSize	9
7C13h	FontStyle	0
7C85h	Format	16C|Y~Tag~@s1@91L(2)|M~Name~@s32@50L(2)|I

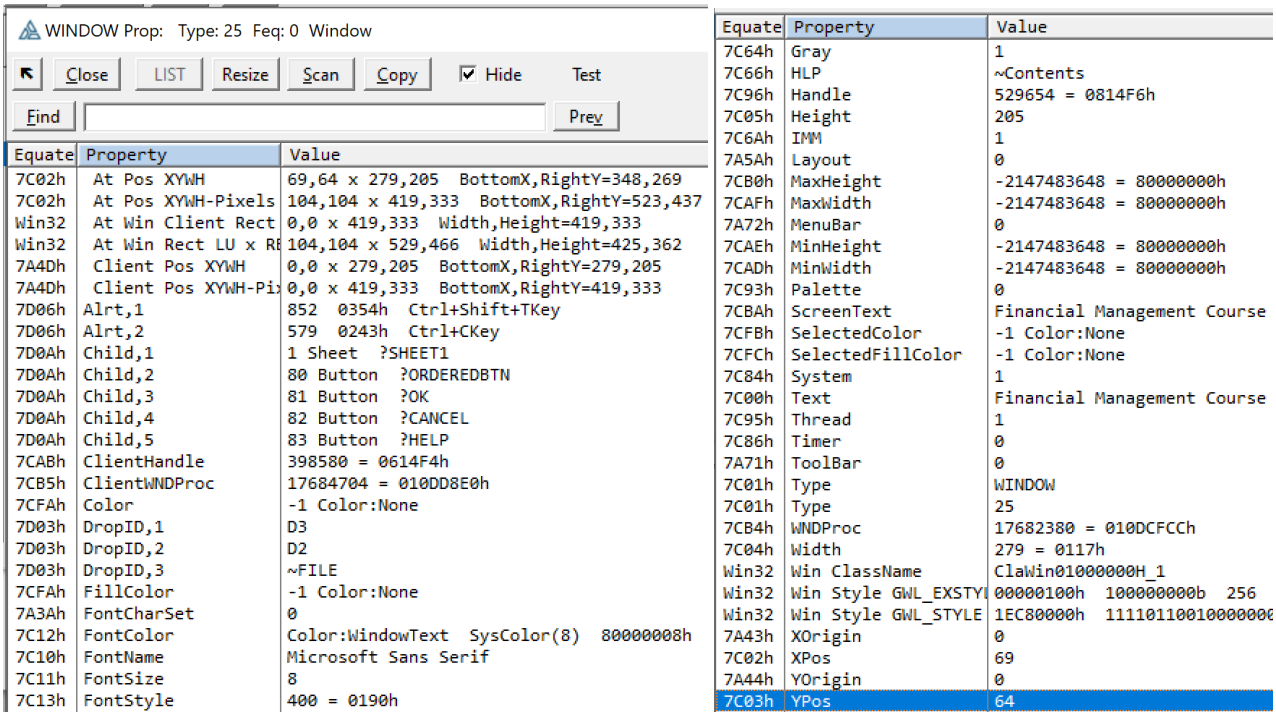
Equate	Property	Value
7A03h	HeaderHeight	10
7C05h	Height	125
7C8Eh	Items	12
7E0Ah	LIST:Exists,0 (Cnt (	3
7C29h	LIST:Grid	Color:Gray R(
7C56h	Last	3
7CACh	LineCount	12
7CFDh	LineHeight	9
7C2Bh	List:DefHdrBackColo	-1 Color:None
7C2Ah	List:DefHdrTextColo	-1 Color:None
7C2Dh	List:HdrSortBackCol	-1 Color:None
7C2Ch	List:HdrSortTextCol	-1 Color:None
7C23h	List:MouseDownField	0
7C20h	List:MouseDownRow	0
7C26h	List:MouseDownZone	6
7C24h	List:MouseMoveField	1
7C21h	List:MouseMoveRow	0
7C27h	List:MouseMoveZone	7
7C25h	List:MouseUpField	0
7C22h	List:MouseUpRow	0
7C28h	List:MouseUpZone	6
7C2Fh	List:SortBackColor	-1 Color:None
7C31h	List:SortColumn	0
7C2Eh	List:SortTextColor	-1 Color:None

Property	Value
Precedes	2 Button ?WING2
PropVScroll	1
SelectedColor	-1 Color:None
SelectedFillColor	-1 Color:None
TextLeftMargin	2
TextRightMargin	2
Type	LIST
Type	14
VCRFeq	0
VScrollPos	0
Visible	1
WNDProc	17111892 = 01051B
WheelScroll	40
Width	150
Win ClassName	ClaList_01000000H
Win Style GWL_EXSTY	00000200h 100000
Win Style GWL_STYLE	52030000h 101001
XOrigin	1
XPos	8
YOrigin	1
YPos	5

Some Windows API information is available to show the CLASS and Style. E.g. these are some styles you can change on a RADIO to make it multi-line, here we see what Style bits Clarion has turned on.

Equate	Property	Value
Win32	At Win Client Rect	0,0 x 146,16 Width,Height=146,16
Win32	At Win Rect LU x RE	850,292 x 996,308 Width,Height=146,16
7C01h	Type	RADIO
7C01h	Type	21
Win32	Win ClassName	ClaRadio_01000000H
Win32	Win Style GWL_EXSTYL	00000000h 0b 0
Win32	Win Style GWL_STYLE	50004009h 10100000000000001000000000001001b 1342193673

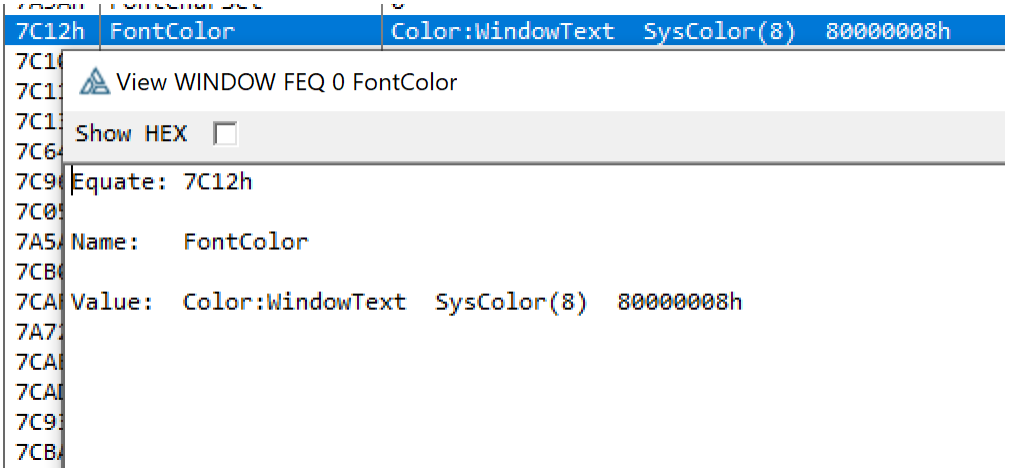
Window PROPs: - Just like Controls but for the Window



Equate	Property	Value
7C02h	At Pos XYWH	69,64 x 279,205 BottomX,RightY=348,269
7C02h	At Pos XYWH-Pixels	104,104 x 419,333 BottomX,RightY=523,437
Win32	At Win Client Rect	0,0 x 419,333 Width,Height=419,333
Win32	At Win Rect LU x RE	104,104 x 529,466 Width,Height=425,362
7A4Dh	Client Pos XYWH	0,0 x 279,205 BottomX,RightY=279,205
7A4Dh	Client Pos XYWH-Pix	0,0 x 419,333 BottomX,RightY=419,333
7D06h	Alrt,1	852 0354h Ctrl+Shift+TKey
7D06h	Alrt,2	579 0243h Ctrl+CKey
7D0Ah	Child,1	1 Sheet ?SHEET1
7D0Ah	Child,2	80 Button ?ORDEREDBTN
7D0Ah	Child,3	81 Button ?OK
7D0Ah	Child,4	82 Button ?CANCEL
7D0Ah	Child,5	83 Button ?HELP
7CABh	ClientHandle	398580 = 0614F4h
7CB5h	ClientWNDProc	17684704 = 010DD8E0h
7CFAh	Color	-1 Color:None
7D03h	DropID,1	D3
7D03h	DropID,2	D2
7D03h	DropID,3	~FILE
7CFAh	FillColor	-1 Color:None
7A3Ah	FontCharSet	0
7C12h	FontColor	Color:WindowText SysColor(8) 80000008h
7C10h	FontName	Microsoft Sans Serif
7C11h	FontSize	8
7C13h	FontStyle	400 = 0190h

Equate	Property	Value
7C64h	Gray	1
7C66h	HLP	~Contents
7C96h	Handle	529654 = 0814F6h
7C05h	Height	205
7C6Ah	IMM	1
7A5Ah	Layout	0
7CB0h	MaxHeight	-2147483648 = 80000000h
7CAFh	MaxWidth	-2147483648 = 80000000h
7A72h	MenuBar	0
7CAEh	MinHeight	-2147483648 = 80000000h
7CADh	MinWidth	-2147483648 = 80000000h
7C93h	Palette	0
7CBAh	ScreenText	Financial Management Course
7CFBh	SelectedColor	-1 Color:None
7CFCh	SelectedFillColor	-1 Color:None
7C84h	System	1
7C00h	Text	Financial Management Course
7C95h	Thread	1
7C86h	Timer	0
7A71h	ToolBar	0
7C01h	Type	WINDOW
7C01h	Type	25
7CB4h	WNDProc	17682380 = 010DCFCCh
7C04h	Width	279 = 0117h
Win32	Win ClassName	ClaWin01000000H_1
Win32	Win Style GWL_EXSTYL	00000100h 100000000b 256
Win32	Win Style GWL_STYLE	1EC80000h 11110110010000000
7A43h	XOrigin	0
7C02h	XPos	69
7A44h	YOrigin	0
7C03h	YPos	64

You can double-click on any property to bring it up in a Window and Copy parts of it:



System or Printer PROPs: - Clarion SYSTEM Properies, can also pick PRINTER. Most of the Hook Props have been removed (delete key) from the screen caps so they are smaller.

SYSTEM / PRINTER Properties

System Printer ALL SM Scan Copy Font...

Find hook Prev

Equate	Property	Value
7C97h	Active	1
7CBEh	AppInstance	4194304 = 400000h
7A05h	AutoPaper	1
7A39h	CharSet	0
7A65h	CloseReportHook	0
7A63h	CloseWindowHook	0
7A70h	ColorHighByte	2
7D0Eh	CustomColor,1	Color:White RGB(255,255,255) FFFFFFh
7CC1h	DDETimeOut	500 = 01F4h
7A0Ah	DDEmode	0
7A59h	DataPath	.\
7CBDh	DeferMove	0
7358h	DriverTracing	1
7CC5h	ExeVersion,1	900 - Internal Version - RTL Linked in Bui
7CC5h	ExeVersion,2	11000 - Production Version - RTL Linked in
7CC5h	ExeVersion,3	13401 - Build Number - RTL Linked in Build
7A3Ah	FontCharSet	0
7C12h	FontColor	Color:Black RGB(0,0,0) 000000h
7C10h	FontName	Segoe UI
7C11h	FontSize	9
7C13h	FontStyle	400 = 0190h
7A4Bh	GlobalHelp	0
7A34h	HaltHook	0
7D40h	HelpEngine,1	134234012 = 08003F9Ch
7D40h	HelpEngine,5	4368072 = 42A6C8h
7A4Ah	ImageInstance	4194304 = 400000h
7A3Dh	InitAStringHook	0
7CA5h	LFNSupport	1
7A66h	LastChanceHook	0
7CBCh	LazyDisplay	0

Equate	Property	Value
7CC4h	LibVersion,1	900 - Internal Version - RTL DLL Loaded b
7CC4h	LibVersion,2	11000 - Production Version - RTL DLL Loac
7CC4h	LibVersion,3	13401 - Build Number - RTL DLL Loaded by
7C70h	MDI	1
7A5Fh	MenuStyle	134225792 = 08001F80h
7A35h	MessageHook	0
7C72h	Modal	0
7A7Dh	MsgModeDefault	2
7CB1h	NoTips	0
7CB8h	OldTreeColor	1
7A1Ah	PrintMode	2
7A58h	PropVScroll	1
7C26h	Status FontColor	-1 Color:None
7C24h	Status FontName	Segoe UI
7C25h	Status FontSize	9
7C27h	Status FontStyle	400 = 0190h
7A45h	Target	16674056 = FE6D08h
7A21h	TempImagePath	C:\Users\CBarnes\AppData\Local\Temp\
7A20h	TempPagePath	C:\Users\CBarnes\AppData\Local\Temp\
7A5Eh	ThemeActive	1
7C95h	Thread	1
7A0Bh	Threading	1
7A7Ah	TimeZeroIsLongOne	0
7CB2h	TipDelay	50
7CB3h	TipDisplay	500 = 01F4h
7A4Ah	Tips FontCharSet	4194304 = 400000h
7C22h	Tips FontColor	Color:Black RGB(0,0,0) 000000h
7C20h	Tips FontName	Segoe UI
7C21h	Tips FontSize	9
7C23h	Tips FontStyle	400 = 0190h
7A5Bh	WindowsVersion, 1	Windows 8 Pro 64 bits RTL Description
7A5Bh	WindowsVersion, 2	Windows 10 Enterprise Win Version Name
7A5Bh	WindowsVersion, 3	6 Major
7A5Bh	WindowsVersion, 4	2 Minor
7A5Bh	WindowsVersion, 5	18362 Build
7A5Bh	WindowsVersion, 6	0 Service Pack
7A5Bh	WindowsVersion, 7	1 64 bit="1"
7A5Bh	WindowsVersion, 9	12 WINVERSION: Equate
7A5Bh	WindowsVersion,10	6 WINEDITION: Equate

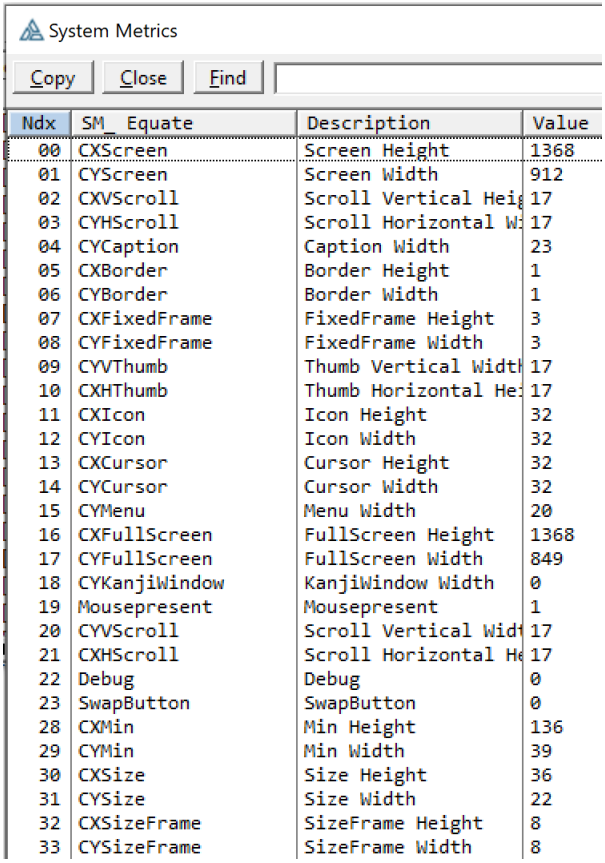
SYSTEM / PRINTER Properties

System Printer ALL SM Scan Co

Find hook

Equate	Property	Value
7B08h	Color	2
7B2Ah	Context	1445014630 = 56212C66h
7B05h	Copies	1
7B28h	Device	Microsoft Print to PDF
7B00h	Devmode	Microsoft Print to PDF
7B27h	Driver	winspool
7B09h	Duplex	1
7B0Bh	Fontmode	3
7B24h	FromMin	0
7B22h	FromPage	-1
7B01h	Paper	1
7B06h	PaperBin	15
7B02h	PaperHeight	2794 = 0AEAh
7B03h	PaperWidth	2159 = 086Fh
7B04h	Percent	100
7B29h	Port	PORTPROMPT:
7B07h	Resolution	600 = 0258h
7B25h	ToMax	65534 = FFFEh
7B23h	ToPage	-1
7B0Ah	YResolution	600 = 0258h

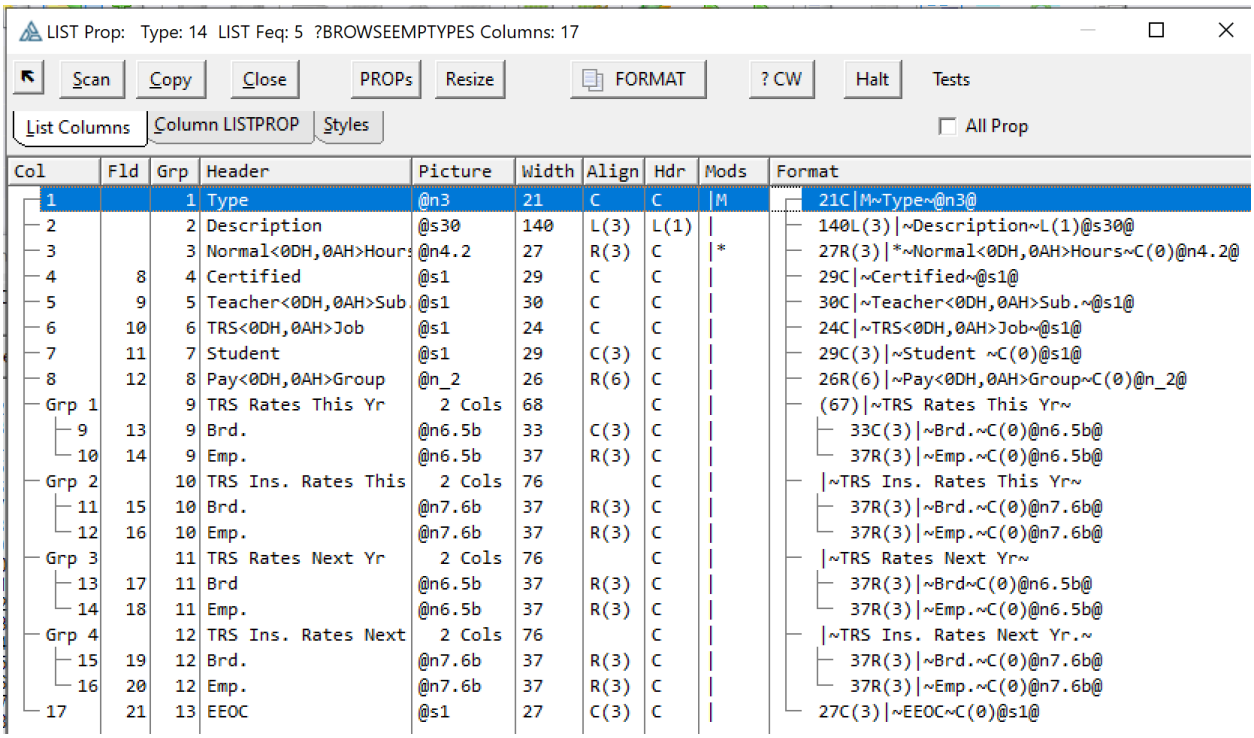
SystemMetrics: - One day I thought it would be interesting to see these so they are in the class, but I rarely use.



Ndx	SM_ Equate	Description	Value
00	CXScreen	Screen Height	1368
01	CYScreen	Screen Width	912
02	CXVScroll	Scroll Vertical Heig	17
03	CYHScroll	Scroll Horizontal W	17
04	CYCaption	Caption Width	23
05	CXBorder	Border Height	1
06	CYBorder	Border Width	1
07	CXFixedFrame	FixedFrame Height	3
08	CYFixedFrame	FixedFrame Width	3
09	CYVThumb	Thumb Vertical Widt	17
10	CXHThumb	Thumb Horizontal He	17
11	CXIcon	Icon Height	32
12	CYIcon	Icon Width	32
13	CXCursor	Cursor Height	32
14	CYCursor	Cursor Width	32
15	CYMenu	Menu Width	20
16	CXFullScreen	FullScreen Height	1368
17	CYFullScreen	FullScreen Width	849
18	CYKanjiWindow	KanjiWindow Width	0
19	Mousepresent	Mousepresent	1
20	CYVScroll	Scroll Vertical Widt	17
21	CXHScroll	Scroll Horizontal He	17
22	Debug	Debug	0
23	SwapButton	SwapButton	0
28	CXMin	Min Height	136
29	CYMin	Min Width	39
30	CXSize	Size Height	36
31	CYSize	Size Width	22
32	CXSizeFrame	SizeFrame Height	8
33	CYSizeFrame	SizeFrame Width	8

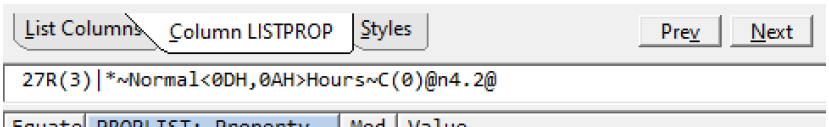
Ndx	SM_ Equate	Description	Value
34	CXMinTrack	MinTrack Height	136
35	CYMinTrack	MinTrack Width	39
36	CXDoubleClk	DoubleClk Height	4
37	CYDoubleClk	DoubleClk Width	4
38	CXIconSpacing	IconSpacing Height	75
39	CYIconSpacing	IconSpacing Width	75
40	MenuDropAlignment	MenuDropAlignment	1
41	PenWindows	PenWindows	0
42	DBCSEnabled	DBCSEnabled	0
43	CMousebuttons	Mousebuttons	5
44	Secure	Secure	0
45	CXEdge	Edge Height	2
46	CYEdge	Edge Width	2
47	CXMinSpacing	MinSpacing Height	314
48	CYMinSpacing	MinSpacing Width	50
49	CXSmIcon	Small Icon Height	16
50	CYSmIcon	Small Icon Width	16
51	CYSmCaption	Small Caption Width	23
52	CXSmSize	Small Size Height	22
53	CYSmSize	Small Size Width	22
54	CXMenuSize	MenuSize Height	19
55	CYMenuSize	MenuSize Width	19
56	Arrange	Arrange	8
57	CXMinimized	Minimized Height	314
58	CYMinimized	Minimized Width	50
59	CXMaxTrack	MaxTrack Height	1388
60	CYMaxTrack	MaxTrack Width	932
61	CXMaximized	Maximized Height	1384
62	CYMaximized	Maximized Width	888
63	Network	Network	3
67	CleanBoot	CleanBoot	0
68	CXDrag	Drag Height	4
69	CYDrag	Drag Width	4
70	ShowSounds	ShowSounds	0
71	CXMenuCheck	MenuCheck Height	15
72	CYMenuCheck	MenuCheck Width	15
73	SlowMachine	SlowMachine	0
74	MideastEnabled	MideastEnabled	0

LIST Format PROPs: - Much of the LIST Properties are available on the Control Props window (which is the [PROPS] button on the LIST window). Below you see a list of Columns in the LIST and some information.



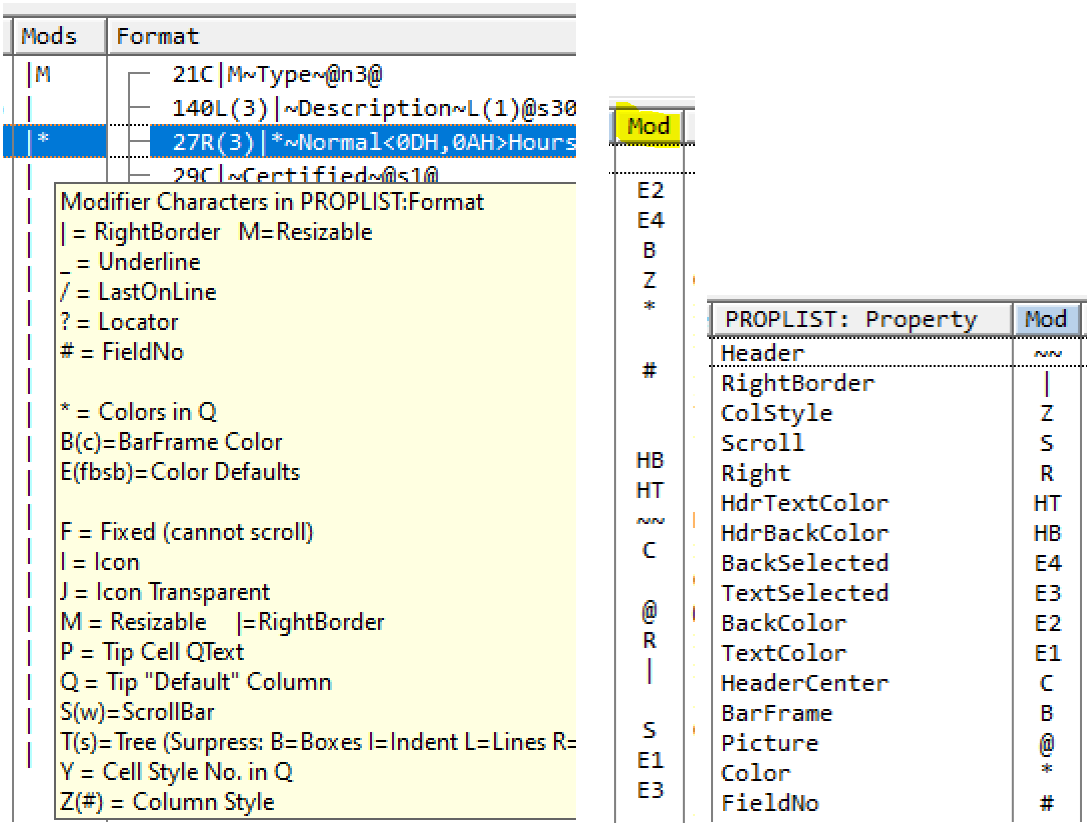
Col	Fld	Grp	Header	Picture	Width	Align	Hdr	Mods	Format
1		1	Type	@n3	21	C	C	|M	21C|M~Type~@n3@
2		2	Description	@s30	140	L(3)	L(1)	|	140L(3)|~Description~L(1)@s30@
3		3	Normal<0DH,0AH>Hour	@n4.2	27	R(3)	C	|*	27R(3)|*~Normal<0DH,0AH>Hours~C(0)@n4.2@
4	8	4	Certified	@s1	29	C	C	|	29C|~Certified~@s1@
5	9	5	Teacher<0DH,0AH>Sub	@s1	30	C	C	|	30C|~Teacher<0DH,0AH>Sub.~@s1@
6	10	6	TRS<0DH,0AH>Job	@s1	24	C	C	|	24C|~TRS<0DH,0AH>Job~@s1@
7	11	7	Student	@s1	29	C(3)	C	|	29C(3)|~Student ~C(0)@s1@
8	12	8	Pay<0DH,0AH>Group	@n_2	26	R(6)	C	|	26R(6)|~Pay<0DH,0AH>Group~C(0)@n_2@
Grp 1		9	TRS Rates This Yr	2 Cols	68		C	|	(67)|~TRS Rates This Yr~
9	13	9	Brd.	@n6.5b	33	C(3)	C	|	33C(3)|~Brd.~C(0)@n6.5b@
10	14	9	Emp.	@n6.5b	37	R(3)	C	|	37R(3)|~Emp.~C(0)@n6.5b@
Grp 2		10	TRS Ins. Rates This	2 Cols	76		C	|	|~TRS Ins. Rates This Yr~
11	15	10	Brd.	@n7.6b	37	R(3)	C	|	37R(3)|~Brd.~C(0)@n7.6b@
12	16	10	Emp.	@n7.6b	37	R(3)	C	|	37R(3)|~Emp.~C(0)@n7.6b@
Grp 3		11	TRS Rates Next Yr	2 Cols	76		C	|	|~TRS Rates Next Yr~
13	17	11	Brd	@n6.5b	37	R(3)	C	|	37R(3)|~Brd~C(0)@n6.5b@
14	18	11	Emp.	@n6.5b	37	R(3)	C	|	37R(3)|~Emp.~C(0)@n6.5b@
Grp 4		12	TRS Ins. Rates Next	2 Cols	76		C	|	|~TRS Ins. Rates Next Yr.~
15	19	12	Brd.	@n7.6b	37	R(3)	C	|	37R(3)|~Brd.~C(0)@n7.6b@
16	20	12	Emp.	@n7.6b	37	R(3)	C	|	37R(3)|~Emp.~C(0)@n7.6b@
17	21	13	EEOC	@s1	27	C(3)	C	|	27C(3)|~EEOC~C(0)@s1@

If you double click on a line the “Column LISTPROP” tab takes focus showing the LISTPROP for that Column.

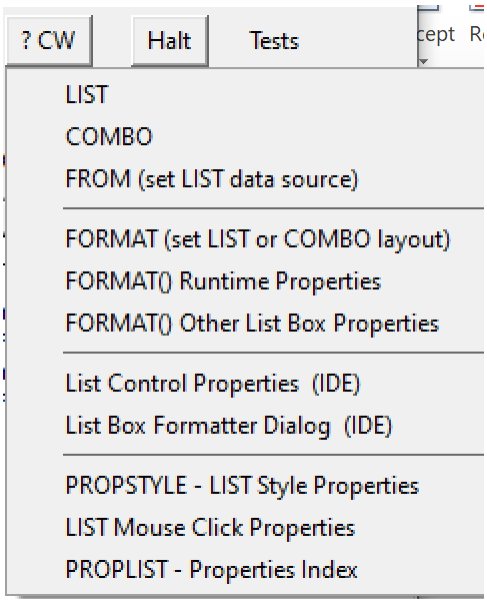


Equate	PROPLIST: Property	Mod	Value
0003h	Column 3		ListFEQ{PROPLIST:xxx, 3}
7E29h	BackColor	E2	-1 Color:None
7E2Bh	BackSelected	E4	-1 Color:None
7E31h	BarFrame	B	-1 Color:None
7E2Dh	ColStyle	Z	0
7E21h	Color	*	1
7E0Ah	Exists		1
7E0Eh	FieldNo	#	3
7E0Fh	Format		27R(3)|*~NormalHours~C(0)@n4.2@
7E0Dh	GroupNo		3
7E33h	HdrBackColor	HB	-1 Color:None
7E32h	HdrTextColor	HT	-1 Color:None
7E03h	Header	~~	NormalHours
7E1Ch	HeaderCenter	C	1
7E1Dh	HeaderCenterOffset		0
7E05h	Picture	@	@n4.2
7E12h	Right	R	1
7E02h	RightBorder	|	1
7E13h	RightOffset		3
7E07h	Scroll	S	0
7E28h	TextColor	E1	-1 Color:None
7E2Ah	TextSelected	E3	-1 Color:None
7E24h	TreeBoxes		1
7E25h	TreeIndent		1
7E23h	TreeLines		1
7E27h	TreeRoot		1
7E04h	Width		27

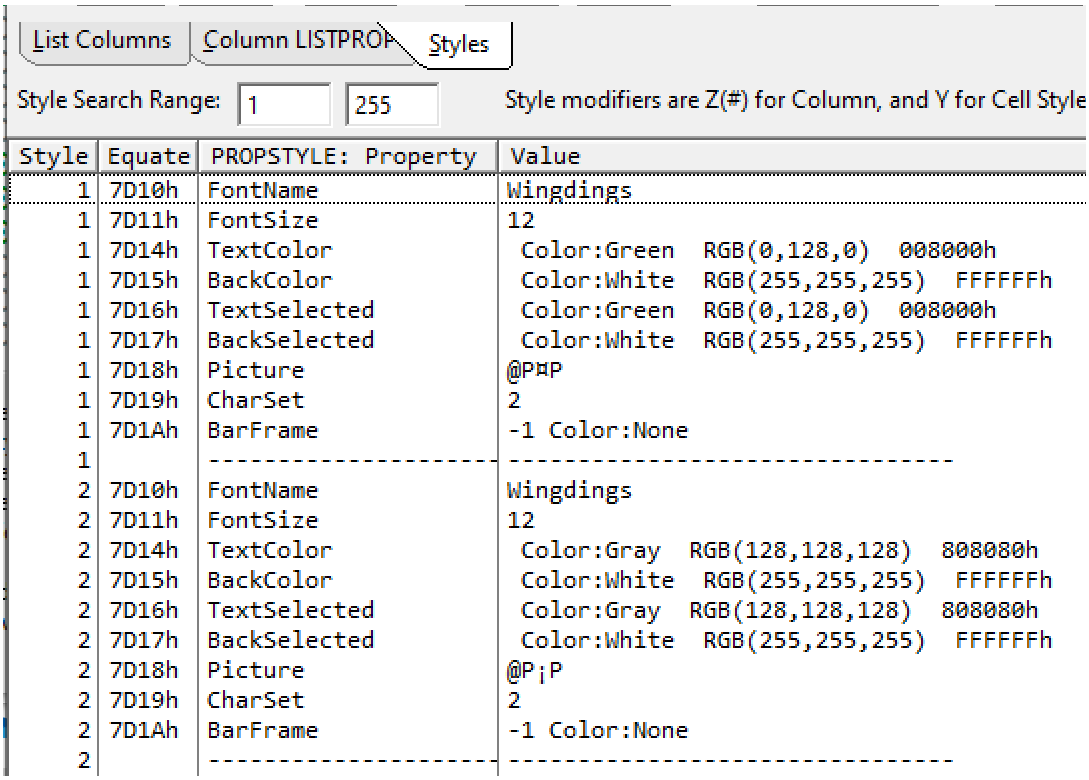
The Modifiers characters are split out because they are useful to learn e.g. “M”=Resizable column. There is a tooltip with most of them explained. On the columns tab you can sort.



The CW? Button will open Clarion Help on various LIST Topics that explain these Properties

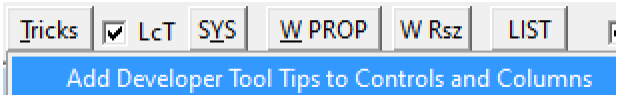


Styles tab is most useful if you implement the class in a live window. In Preview you'll get some random Styles generated for Y Cell Style. You get nothing for Z Column Style.

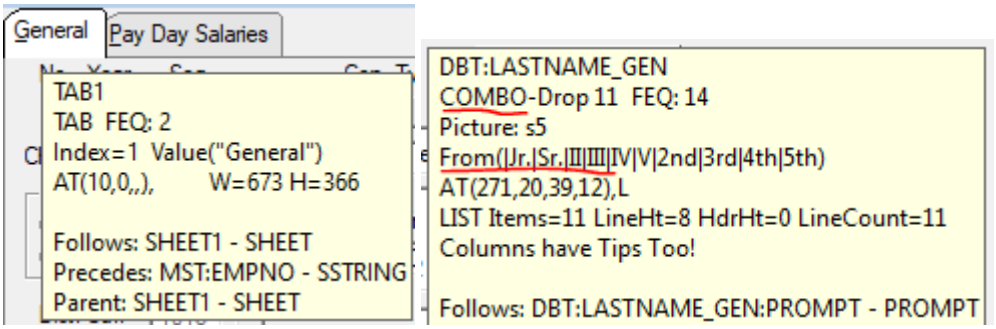


Style	Equate	PROPSTYLE: Property	Value
1	7D10h	FontName	Wingdings
1	7D11h	FontSize	12
1	7D14h	TextColor	Color:Green RGB(0,128,0) 008000h
1	7D15h	BackColor	Color:White RGB(255,255,255) FFFFFFh
1	7D16h	TextSelected	Color:Green RGB(0,128,0) 008000h
1	7D17h	BackSelected	Color:White RGB(255,255,255) FFFFFFh
1	7D18h	Picture	@P¤P
1	7D19h	CharSet	2
1	7D1Ah	BarFrame	-1 Color:None
1		----------	----------
2	7D10h	FontName	Wingdings
2	7D11h	FontSize	12
2	7D14h	TextColor	Color:Gray RGB(128,128,128) 808080h
2	7D15h	BackColor	Color:White RGB(255,255,255) FFFFFFh
2	7D16h	TextSelected	Color:Gray RGB(128,128,128) 808080h
2	7D17h	BackSelected	Color:White RGB(255,255,255) FFFFFFh
2	7D18h	Picture	@P¡P
2	7D19h	CharSet	2
2	7D1Ah	BarFrame	-1 Color:None
2		----------	----------

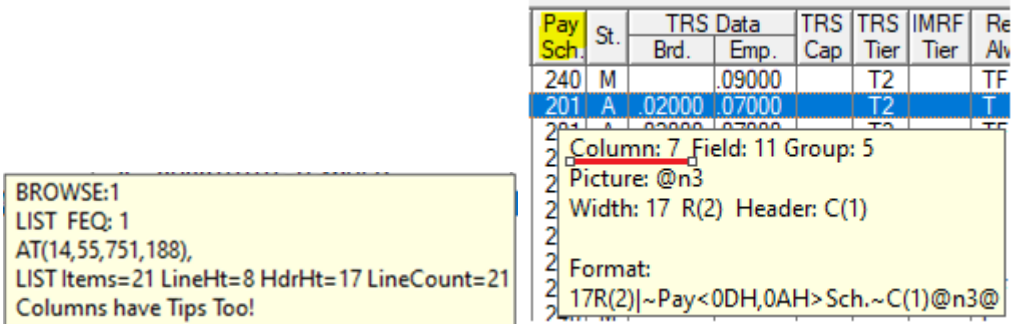
Tricks Button: Developer Tool Tips

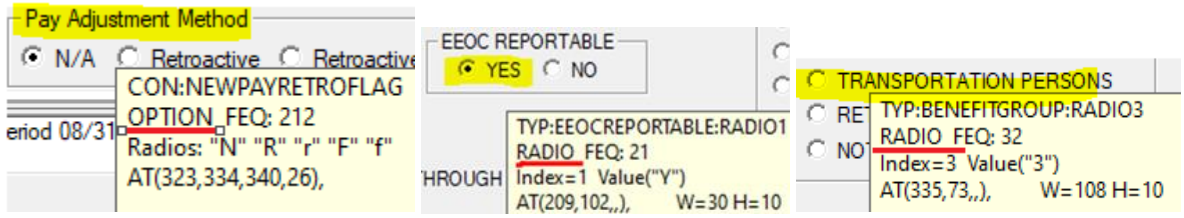


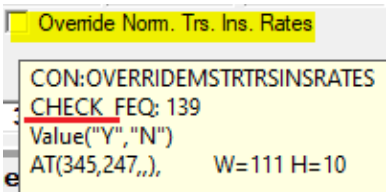
After clicking the button close the wInspect Controls list and on your Window you'll find tool tips added to each control with some info useful to the developer. I frequently need to know the Value() assigned in a CHECK, OPTION or FROM List so its in the See More popup. I frequently need to know the Use variable. In a preview the USE() are all V## so not helpful. In a live program they will be better tips. The Tip shows the Previous and Follows controls, usually one of them will be a Prompt() with the USE() variable + ":Prompt":



List has tip over Header, and each Column has a tip.



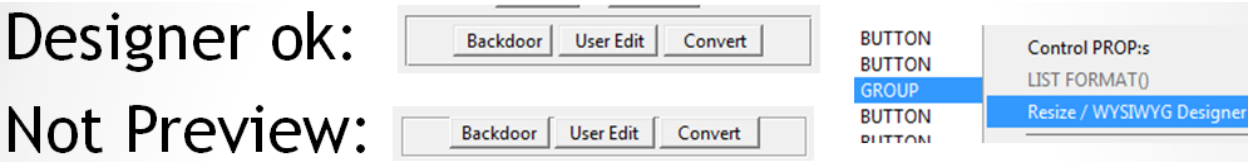




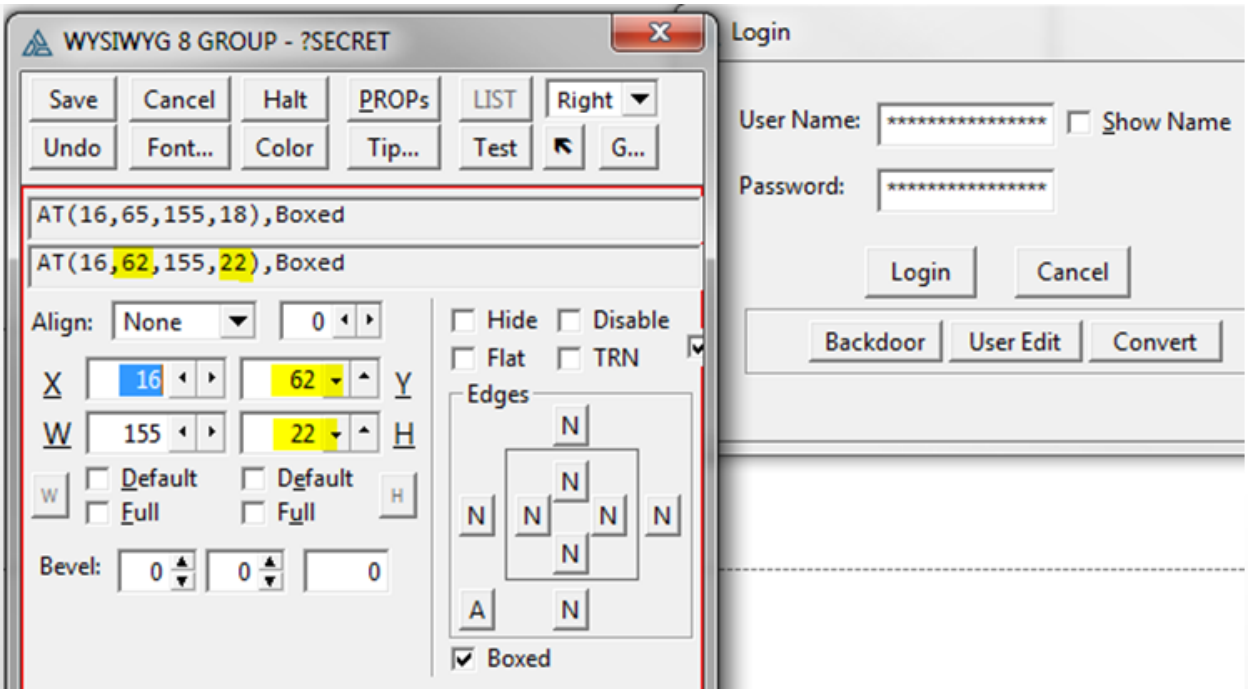
Resizer / WYSIWYG Designer

Resizer is on Right Click menu. If you check the “C Rsz2M” box then double-click on a Control will open the Resizer.

Below you see a Group around some buttons as it appeared fine in Designer but then at runtime it is shifted down.
NOTE: That sizes and placement are different with Visual Styles so be sure you have VS turned ON is Designer.



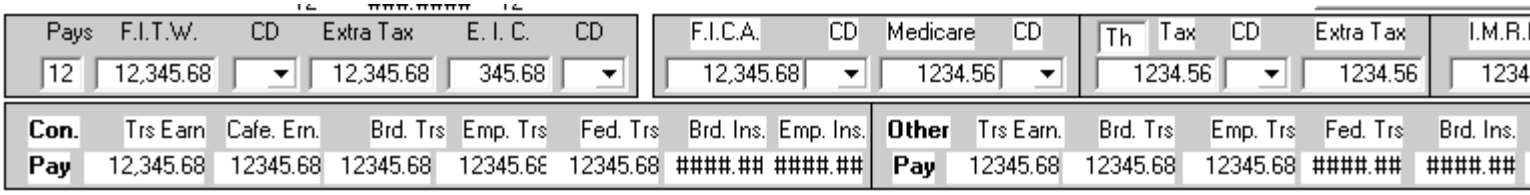
In the Resizer the Y is changed from 65 to 62, and the Height from 18 to 22 to make it right.



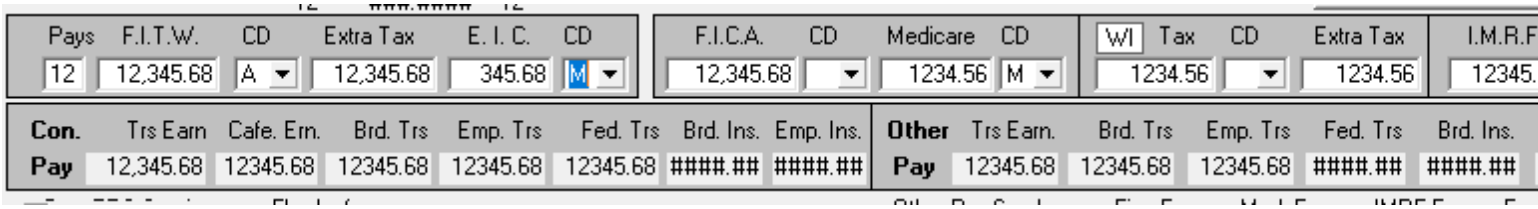
Hover over the controls in the resizer for tool tips. Hot Keys for Resize are Shift+Arrows, for Move are Ctrl+Arrows.

Example of a Window section that needed tight spacing. To get this many controls perfected can take many round trips of preview, adjust in designer, preview. Using the Preview Class Resizer you can get it perfect in one try. It is tedious and you do have to re-enter the corrected AT() into designer, but you get it perfect in one try.

Before (compare the bottom row left size e.g. third in “Brd. Trs”. Sorry many are missing TRN in before)

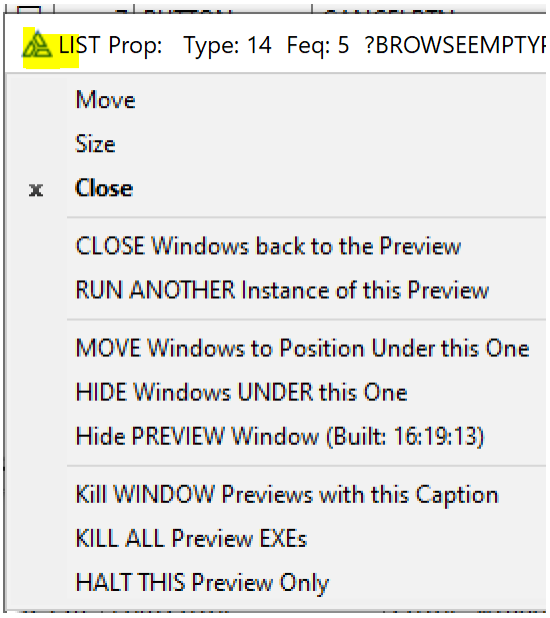


After



System Menu

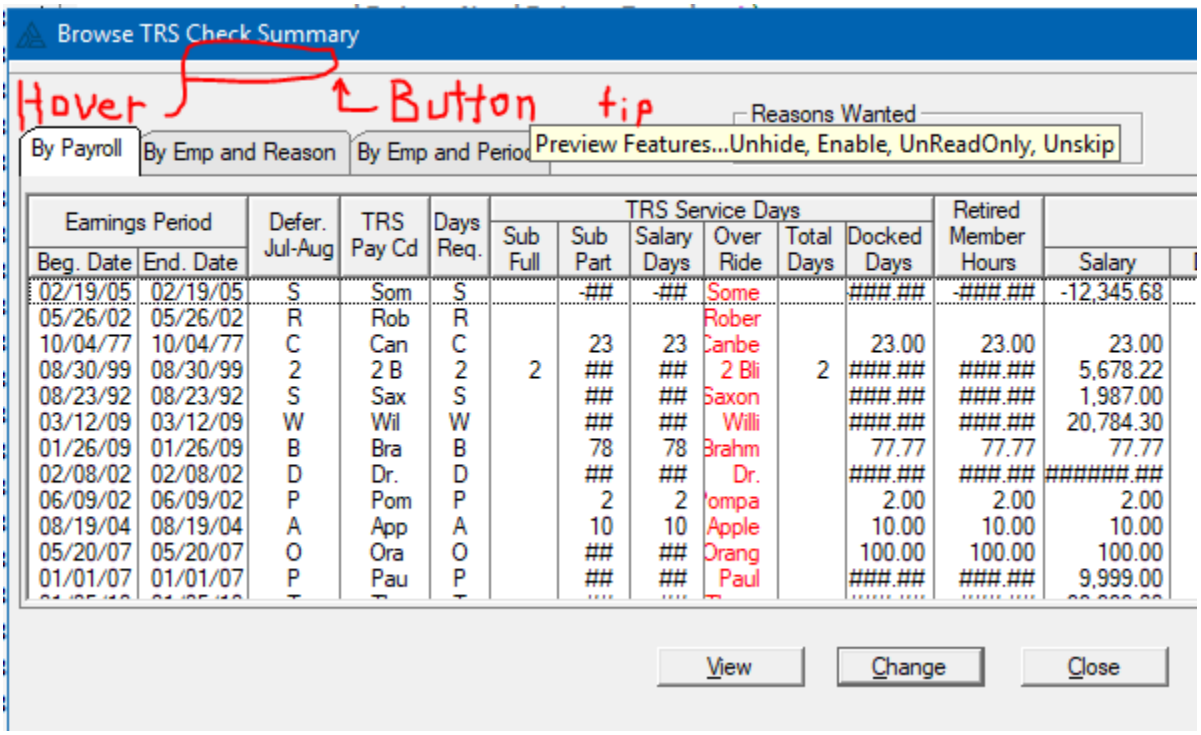
Nearly every window has the below System Menu:



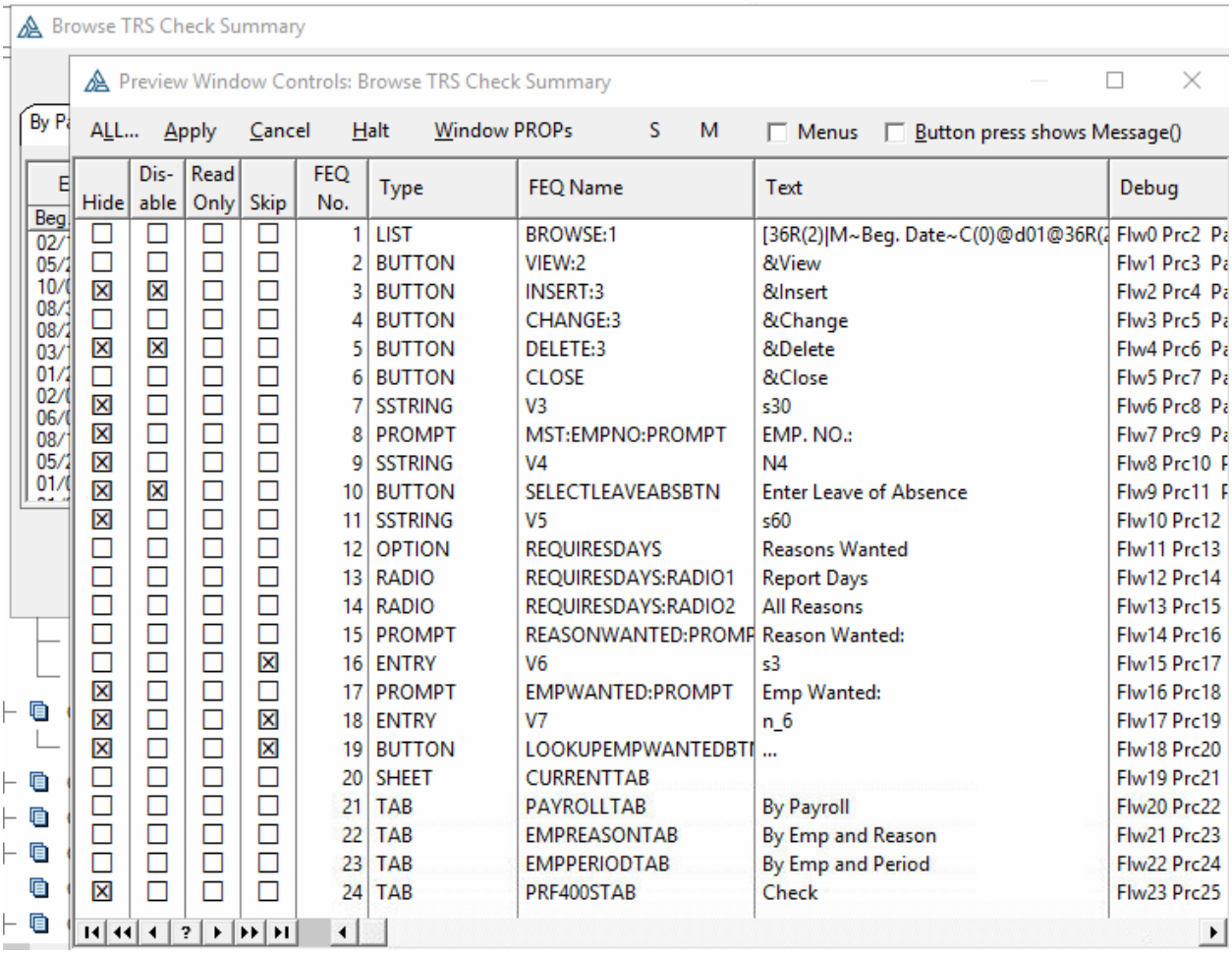
CLOSE Windows back to the Preview	The tool can open a series of windows. This closes them all to get to the original preview window.
RUN ANOTHER Instance of this Preview	Rather than do the above and close back to the preview … you can run another instance and leave the original one right where it started.
MOVE Windows to Position Under this One	Moves the under windows to be the under the one with focus
HIDE Windows UNDER this One	Hides all unders leaving just the this top once visible. As soon as you close this window they unhide. If you select this menu item again they unhide.
Hide PREVIEW Window	Just hide the preview window. As soon as you close this window it will unhide. If you select this menu item again it will unhide.
Kill WINDOW Previews with this Caption	I can have a lot of previews open. This uses TaskKill to shutdown those with this caption
KILL ALL Preview EXEs	Runs TaskKill for all WinPreview---.exe
HALT THIS Preview Only	Simply does a HALT to kill the current preview.

Content from an Older document, some screens may have changed ….

When you have a preview up and hover the mouse over the top of the window a secret button popups up to let you open CBWndPreview. See below the button is across the entire width the window.

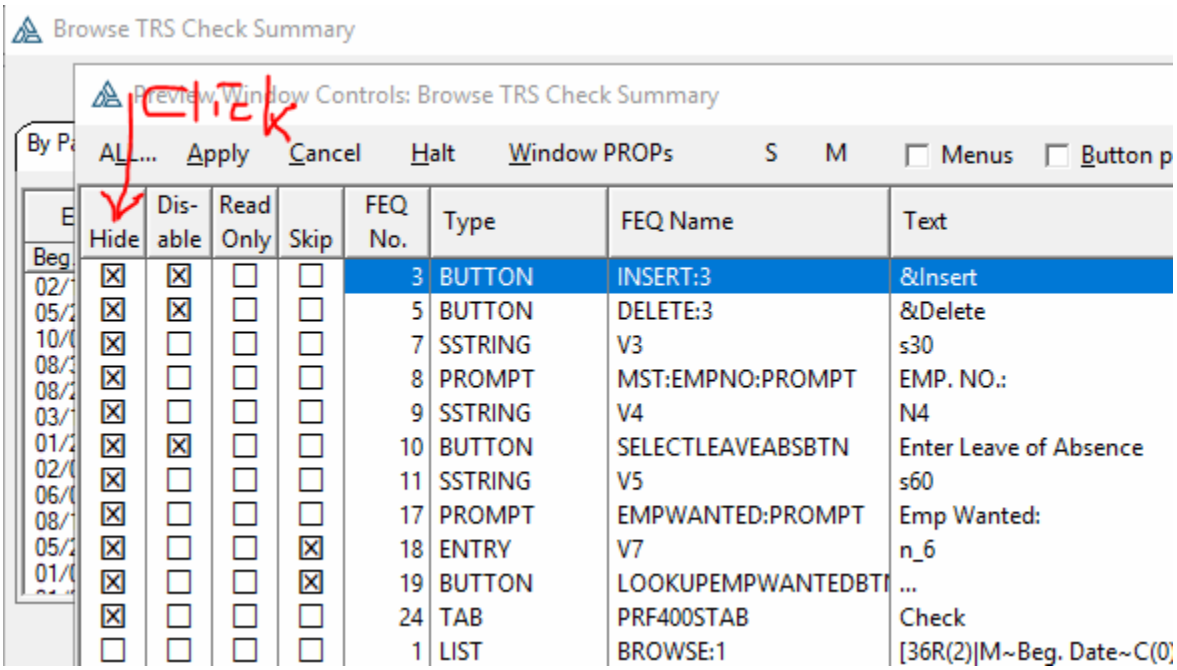


Clicking the secret button pops up a window with all the controls listed:



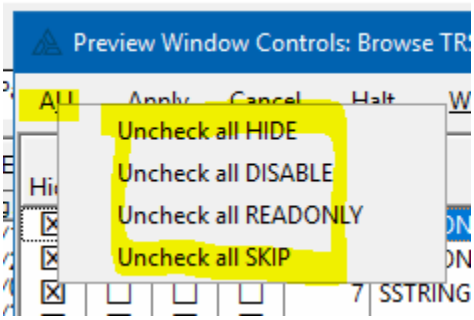
Hide	Dis-able	Read Only	Skip	FEQ No.	Type	FEQ Name	Text	Debug
☐	☐	☐	☐	1	LIST	BROWSE:1	[36R(2)|M~Beg. Date~C(0)@d01@36R(	Flw0 Prc2 Pa
☐	☐	☐	☐	2	BUTTON	VIEW:2	&View	Flw1 Prc3 Pa
☒	☒	☐	☐	3	BUTTON	INSERT:3	&Insert	Flw2 Prc4 Pa
☐	☐	☐	☐	4	BUTTON	CHANGE:3	&Change	Flw3 Prc5 Pa
☒	☒	☐	☐	5	BUTTON	DELETE:3	&Delete	Flw4 Prc6 Pa
☐	☐	☐	☐	6	BUTTON	CLOSE	&Close	Flw5 Prc7 Pa
☒	☐	☐	☐	7	SSTRING	V3	s30	Flw6 Prc8 Pa
☒	☐	☐	☐	8	PROMPT	MST:EMPNO:PROMPT	EMP. NO.:	Flw7 Prc9 Pa
☒	☐	☐	☐	9	SSTRING	V4	N4	Flw8 Prc10 P
☒	☒	☐	☐	10	BUTTON	SELECTLEAVEABSBTN	Enter Leave of Absence	Flw9 Prc11 P
☒	☐	☐	☐	11	SSTRING	V5	s60	Flw10 Prc12
☐	☐	☐	☐	12	OPTION	REQUIRESDAYS	Reasons Wanted	Flw11 Prc13
☐	☐	☐	☐	13	RADIO	REQUIRESDAYS:RADIO1	Report Days	Flw12 Prc14
☐	☐	☐	☐	14	RADIO	REQUIRESDAYS:RADIO2	All Reasons	Flw13 Prc15
☐	☐	☐	☐	15	PROMPT	REASONWANTED:PROMP	Reason Wanted:	Flw14 Prc16
☐	☐	☐	☒	16	ENTRY	V6	s3	Flw15 Prc17
☒	☐	☐	☐	17	PROMPT	EMPWANTED:PROMPT	Emp Wanted:	Flw16 Prc18
☒	☐	☐	☒	18	ENTRY	V7	n_6	Flw17 Prc19
☒	☐	☐	☒	19	BUTTON	LOOKUPEMPWANTEDBTI	...	Flw18 Prc20
☐	☐	☐	☐	20	SHEET	CURRENTTAB		Flw19 Prc21
☐	☐	☐	☐	21	TAB	PAYROLLTAB	By Payroll	Flw20 Prc22
☐	☐	☐	☐	22	TAB	EMPREASONTAB	By Emp and Reason	Flw21 Prc23
☐	☐	☐	☐	23	TAB	EMPPERIODTAB	By Emp and Period	Flw22 Prc24
☒	☐	☐	☐	24	TAB	PRF400STAB	Check	Flw23 Prc25

You can click on headings to sort, e.g. below are all the HIDE fields first:

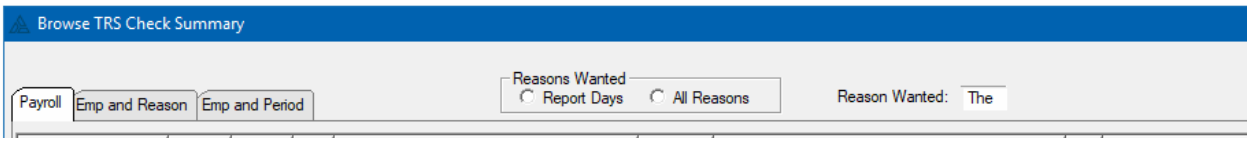


Hide	Dis-able	Read Only	Skip	FEQ No.	Type	FEQ Name	Text
☒	☒	☐	☐	3	BUTTON	INSERT:3	&Insert
☒	☒	☐	☐	5	BUTTON	DELETE:3	&Delete
☒	☐	☐	☐	7	SSTRING	V3	s30
☒	☐	☐	☐	8	PROMPT	MST:EMPNO:PROMPT	EMP. NO.:
☒	☐	☐	☐	9	SSTRING	V4	N4
☒	☒	☐	☐	10	BUTTON	SELECTLEAVEABSBTN	Enter Leave of Absence
☒	☐	☐	☐	11	SSTRING	V5	s60
☒	☐	☐	☐	17	PROMPT	EMPWANTED:PROMPT	Emp Wanted:
☒	☐	☐	☒	18	ENTRY	V7	n_6
☒	☐	☐	☒	19	BUTTON	LOOKUPEMPWANTEDBTI	...
☒	☐	☐	☐	24	TAB	PRF400STAB	Check
☐	☐	☐	☐	1	LIST	BROWSE:1	[36R(2)|M~Beg. Date~C(0)

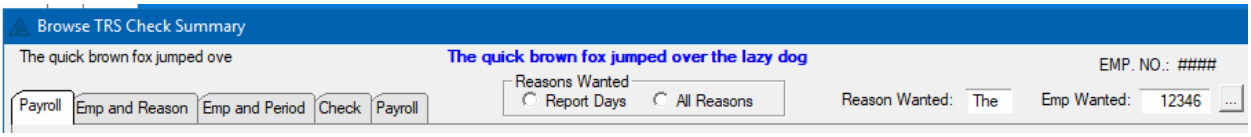
Click on the ALL… button for POPUP to remove Hide, Disable, Readonly, Skip from all controls, then click Apply button.



Before

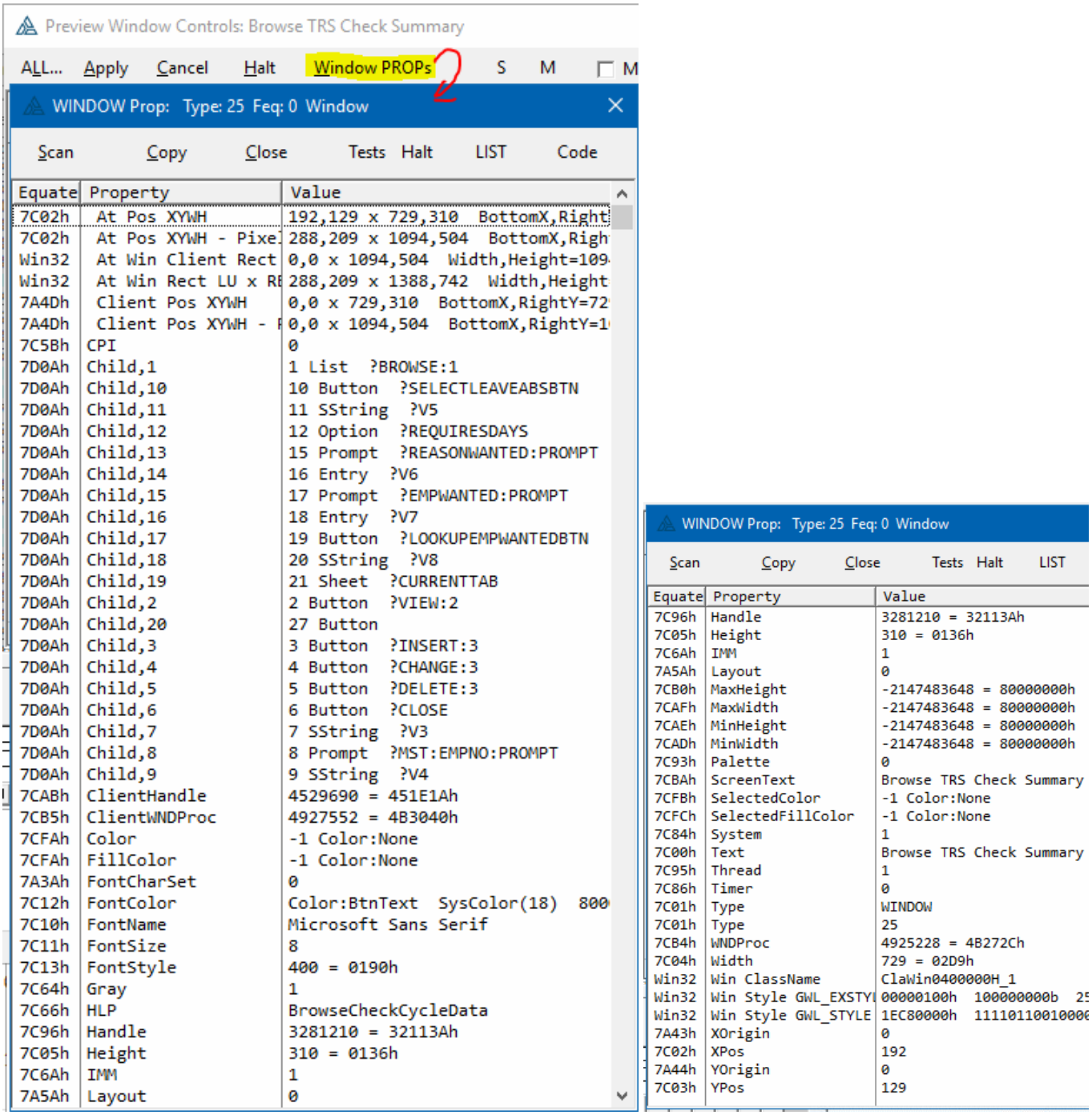


After “Uncheck all HIDE” you see 2 more tabs and other stuff appear on the preview



Reflections PROP Inspector:

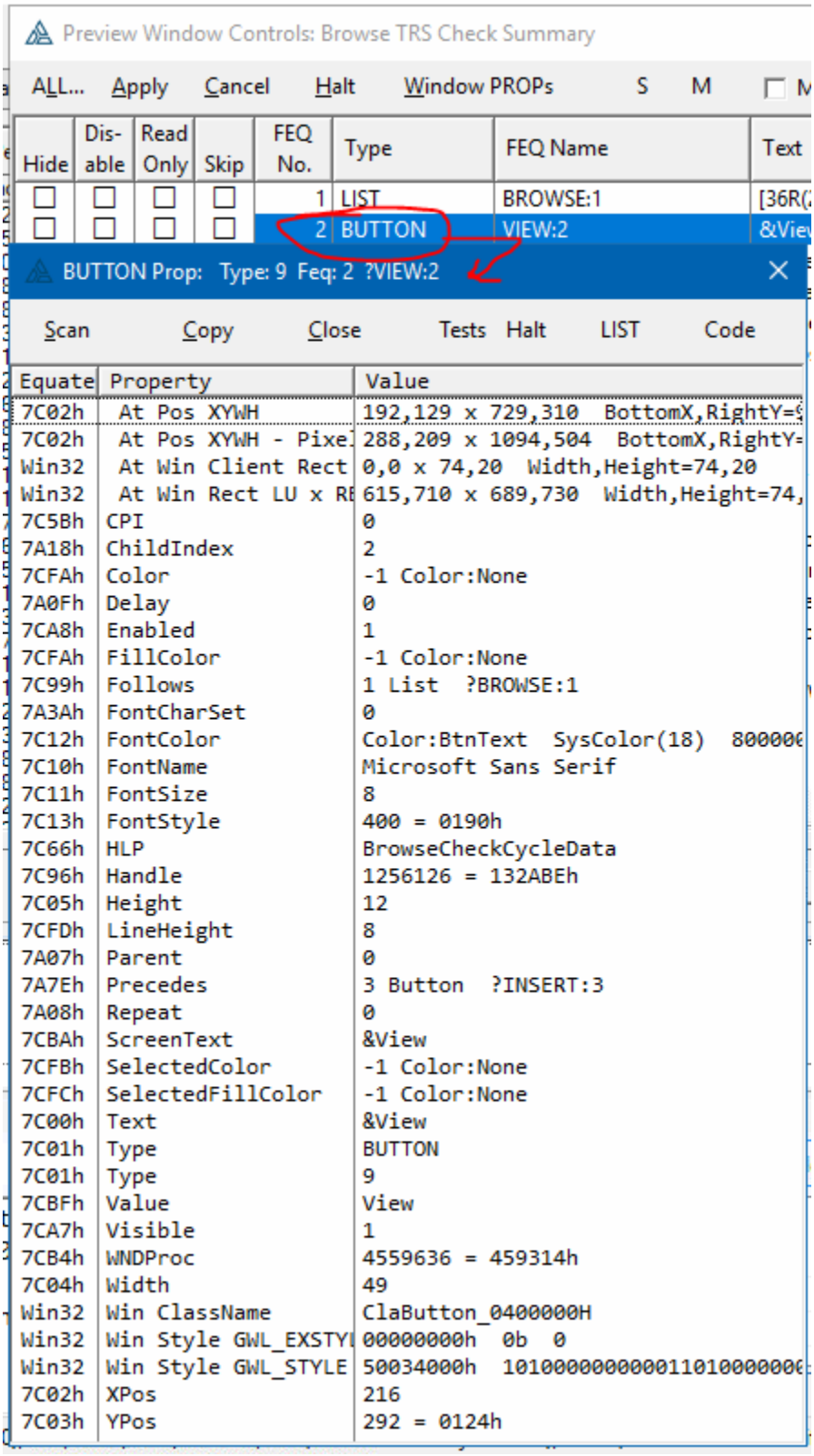
Click “Window PROPs” button to see all WINDOW PROPs: (I should probably omit the Child’s)



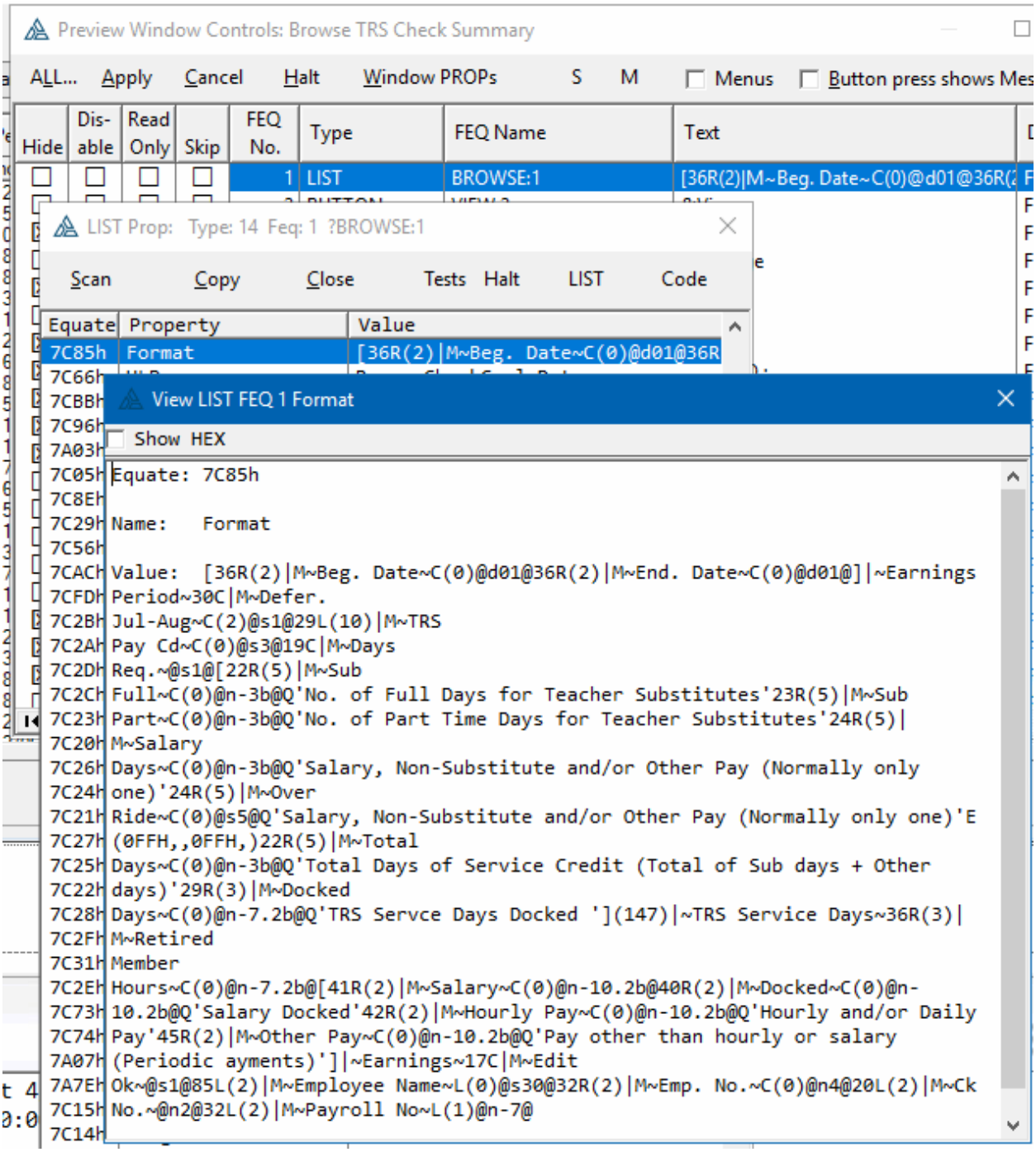
I throw in a few Windows API Properties like the GetWindowLong GWL Style and EX Style.

Yu can clikc onm these columns to sort by Equate, Name or Value.

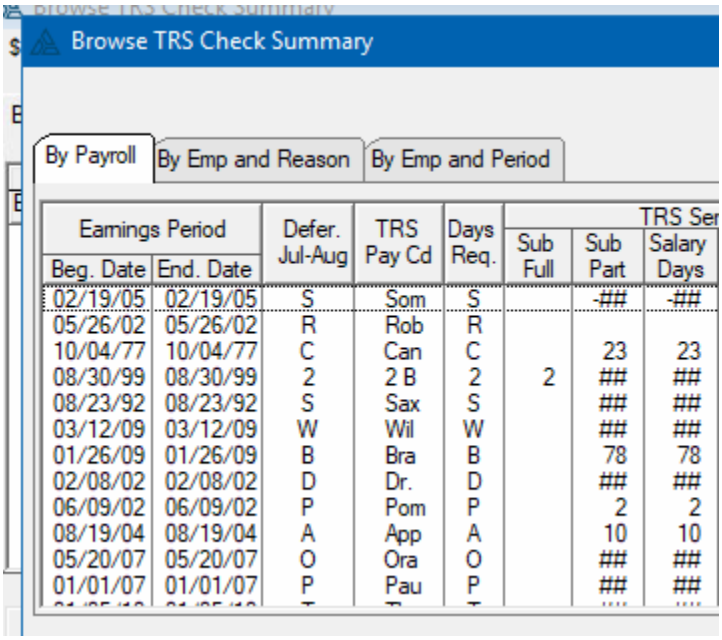
Double click on any control in the list to see all of its PROPs:



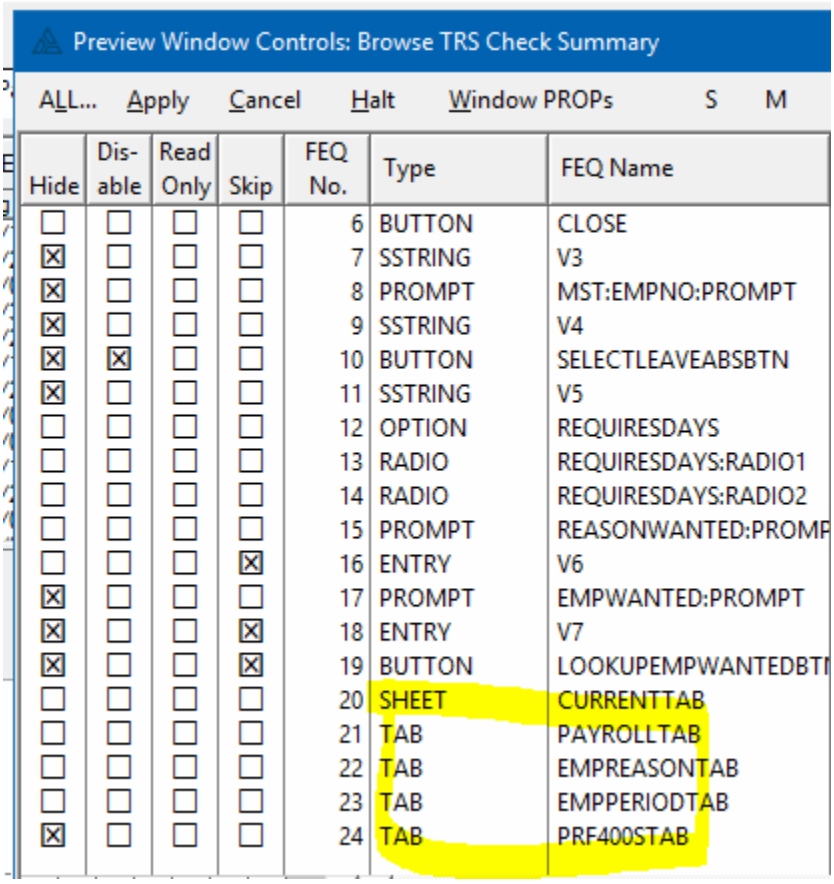
Double click on any property to see it expanded



Reflect PROP Example: I want to Hide All Tabs on a SHEET so I recall there is a PROP for Tab Count, and then I need PROPs to get an FEQ to the TAB:

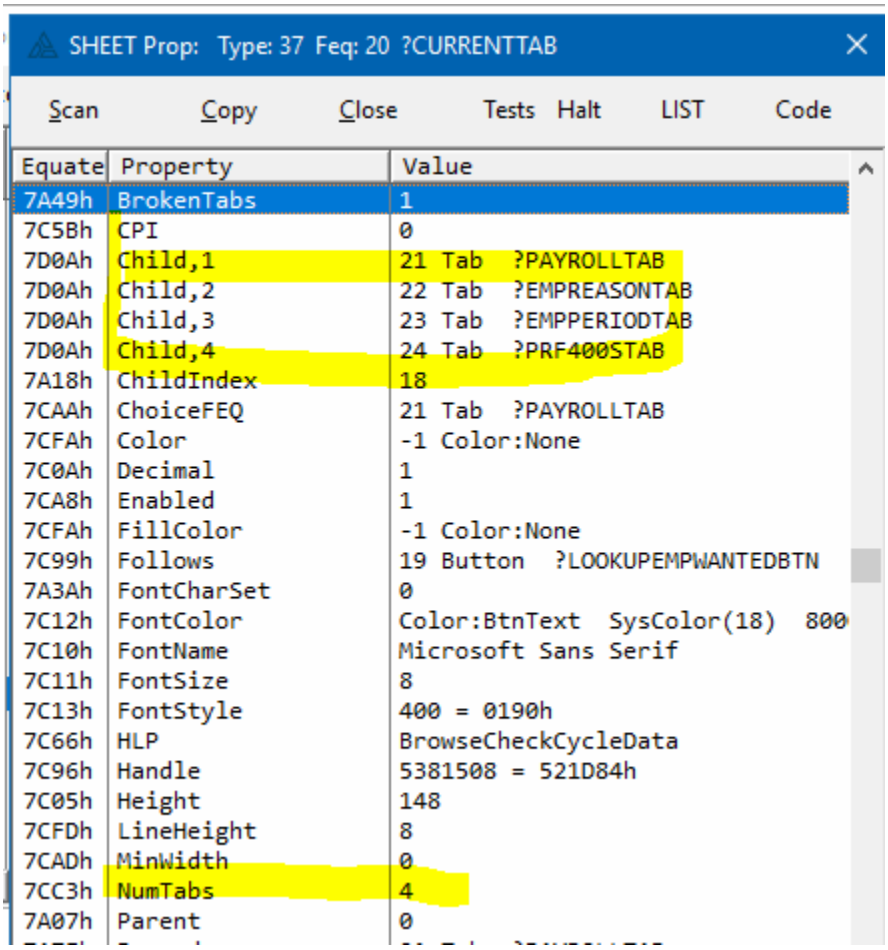


Earnings Period		Defer. Jul-Aug	TRS Pay Cd	Days Req.	TRS Ser		
Beg. Date	End. Date				Sub Full	Sub Part	Salary Days
02/19/05	02/19/05	S	Som	S		-##	-##
05/26/02	05/26/02	R	Rob	R			
10/04/77	10/04/77	C	Can	C		23	23
08/30/99	08/30/99	2	2 B	2	2	##	##
08/23/92	08/23/92	S	Sax	S		##	##
03/12/09	03/12/09	W	Wil	W		##	##
01/26/09	01/26/09	B	Bra	B		78	78
02/08/02	02/08/02	D	Dr.	D		##	##
06/09/02	06/09/02	P	Pom	P		2	2
08/19/04	08/19/04	A	App	A		10	10
05/20/07	05/20/07	O	Ora	O		##	##
01/01/07	01/01/07	P	Pau	P		##	##



Hide	Dis-able	Read Only	Skip	FEQ No.	Type	FEQ Name
☐	☐	☐	☐	6	BUTTON	CLOSE
☒	☐	☐	☐	7	SSTRING	V3
☒	☐	☐	☐	8	PROMPT	MST:EMPNO:PROMPT
☒	☐	☐	☐	9	SSTRING	V4
☒	☒	☐	☐	10	BUTTON	SELECTLEAVEABSBTN
☒	☐	☐	☐	11	SSTRING	V5
☐	☐	☐	☐	12	OPTION	REQUIRESDAYS
☐	☐	☐	☐	13	RADIO	REQUIRESDAYS:RADIO1
☐	☐	☐	☐	14	RADIO	REQUIRESDAYS:RADIO2
☐	☐	☐	☐	15	PROMPT	REASONWANTED:PROMP
☐	☐	☐	☒	16	ENTRY	V6
☒	☐	☐	☐	17	PROMPT	EMPWANTED:PROMPT
☒	☐	☐	☒	18	ENTRY	V7
☒	☐	☐	☒	19	BUTTON	LOOKUPEMPWANTEDBTN
☐	☐	☐	☐	20	SHEET	CURRENTTAB
☐	☐	☐	☐	21	TAB	PAYROLLTAB
☐	☐	☐	☐	22	TAB	EMPREASONTAB
☐	☐	☐	☐	23	TAB	EMPPERIODTAB
☒	☐	☐	☐	24	TAB	PRF400STAB

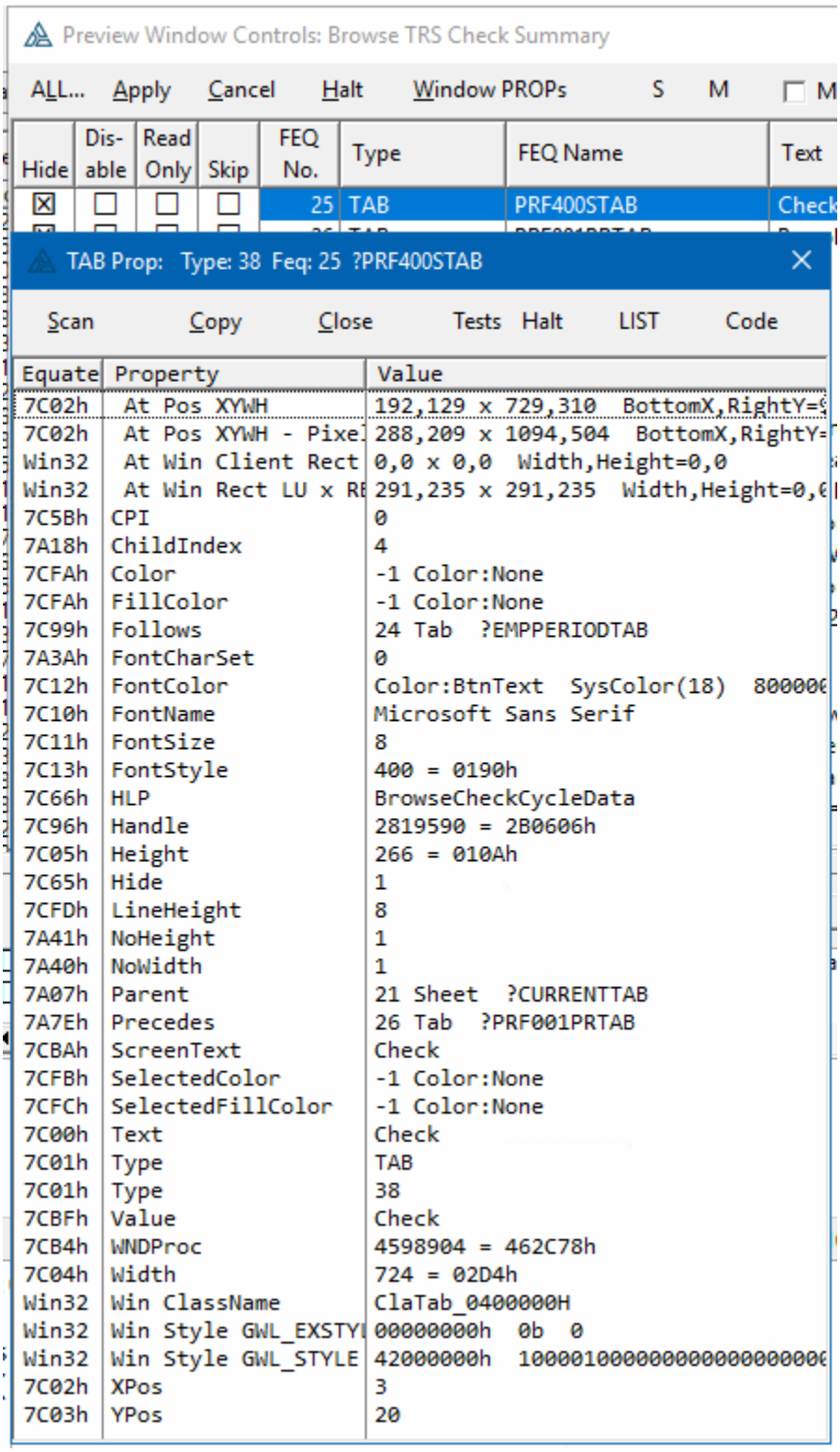
I double click on the SHEET to see its PROPs and there I see {PROP:Child, Tab#} is the FEQ for each tab, plus PROP:NumTabs is the Count I need.



So I use that info to write this code:

```
Local.HideAllTabs      PROCEDURE()      !So c
TX   LONG,AUTO
     CODE
     LOOP TX=1 TO ?CurrentTab{PROP:NumTabs}
          HIDE(?CurrentTab{PROP:Child,TX})
     END
     RETURN
```

Double click on TAB shows me all of its PROPs:



This is a work in progress. There is more I will add e.g. LIST FORMAT viewer. I have gotten distracted by some cute little things that need to be removed. The code needs cleanup. It has been developed mostly at night.

It can be used on a live window at runtime by adding about 3 lines of code to a procedure.

I think I can hook the help engine to get it on any window without adding any per window code.

Add Class to Window Procedure to See at Runtime

The Class can easily be added to a live Window Procedure and see the properties at runtime. Possibly your code changed PROPs. Things like LIST Styles are not available until runtime. I would suggest you only create the class when a hot key is pressed and probably only if it is on a develop machine or it is a backdoor user. You don't want users accidentally in this.

1. Include the class in Global: `INCLUDE('CbWndPreview.INC'),ONCE`	2.
3. Declare in Window Procedure:	4.

1. Include the class in Global	`INCLUDE('CbWndPreview.INC'),ONCE`
2. Declare in Window Procedure	`CbWndPrv &CBWndPreviewClass`
3. Window add an Alert Key	`Window WINDOW('Form'),AT(,,99,994), ALRT(CtrlShiftW)`

4. OF Event:AlertKey	`IF KEYCODE()=CtrlShiftW THEN`
	`  IF CbWndPrv &= NULL THEN`
	`  CbWndPrv &= NEW(CBWndPreviewClass)`
	`  CbWndPrv.Init()`
	`  END !ELSE`
	`  CbWndPrv.Reflection() !Display on Hit Key`
	`END`

5. Close Window. Not required, you'll leak a little memory but its for debug.	`IF NOT CbWndPrv &= NULL THEN DISPOSE(CbWndPrv).`

Install Instructions

1. Open your “LIBSRC” folder usually C:\ Clarion11\Accessory\LibSrc\Win folder
2. Copy the CBWndPreview* CLW and INC files into LIBSRC
3. Create a WindowPreviewer.INC like below in LIBSRC. The IDE New Source has a Template for WindowPreviewer.INC you can paste in just few yellow highlighted lines.

WindowPreviewer.INC

```
SECTION('Includes')
  !Put variable and equate declarations here
  INCLUDE('CBWndPreview.INC'),ONCE
FixNum      BYTE                !Must wait to fix number until InAccept.
WndPrvCls   CBWndPreviewClass
!---------------------------------
  SECTION('AfterOpen')
  !Put code that needs to be executed after the window is opened, but before
entering the ACCEPT loop

  WndPrvCls.Init(2) !2=Secret Button Across Top; 1=Upper Left Corner 8x8

!Optional--> WndPrvCls.AllOffHDRS(1,0,0,0) !All controls 1=Turn off
(Hide,Disable,Readonly,Skip) - Not done if Ctrl key down

  0{PROP:System} = 1   !Carl likes a SYSTEM Menu to close window because below set:
windowPreviewerCanExit__=False
!---------------------------------
  SECTION('InAccept')
 !Optional-->  IF ~FixNum THEN FixNum=1 ; WndPrvCls.AllFixNumbers() ; END !Fix
Previewer ####.## numbers to 9999.99
  windowPreviewerCanExit__ = FALSE  !Carl likes button click NOT closing window to
test Alt+Keys. Escape or SYSTEM Red X will Close.

!Put code here that is executed at the top of the ACCEPT loop
!if you set windowPreviewerCanExit__ to FALSE, the generated code will not
!check to see if a button was pressed and exit the preview
!Note that windowPreviewerCanExit__ is reset to TRUE every iteration of the ACCEPT
loop
```

4.
5.

$$$