

Audio Beep	No parameters required	Produces an audible beep from the PC speaker or soundcard if fitted.
Audio Key	<UP/DOWN> <Filename.WAV\$>	Plays a WAV file when any key is pressed or released.
Audio MCI	<Var\$>	Sends string <Var\$> directly to the Media Control Interface (MCI) driver.
Audio Play	<Filename.WAV\$> [<Offset%>] [<OnErrorOffset%>] [<ImmediateFlag%>]	Plays a WAV file via the external sound system and executes <Offset%> when complete. Optional <Offset%>, <OnErrorOffset> and [<ImmediateFlag%>]parameters.
Audio Record	<Filename.WAV\$>	Records a WAV file <Filename.WAV\$> via the external sound system if available.
Audio Stop	No parameters required	Stops any playing or recording.
Bitmap Put	<Panel No%> <Control Id%> <xPos%> <yPos%>	Draws a bitmap on an owner draw control. <xPos%> and <yPos%> are offsets
Control Adjust	<Panel No%> <ScrollBar Id%> <Value%>	Sets the position of a scroll bar. Value should be an integer between 0 and 255.
Control Check	<Panel No%> <Control Id%>	Puts a check mark next to a check control or radio button.
Control Disable	<Panel No%> <Control Id%> [<Max Button ID >]	Disables a control by "greying out" and making it disabled. Optional <Max Button ID> parameter.
Control Enable	<Panel No%> <Button Id%> [<Max Button ID 2>]	Enables a control by un-"greying out" and enabling it. Optional <Max Button ID> parameter.
Control Focus	<Panel No%> <Button Id%>	Sets the input focus to be control <Button Id%> on panel <Panel No%>.
Control Hide	<Panel No%> <Control Id%> [<Max Button ID >]	Hide the control (or range of controls with optional third parameter) – see CV
Control Idchange	<Panel No%> <Old Control Id%> <New Control Id%>	Changes the control ID of a control.
Control Move	<Panel No%> <Ctl Id%> <NewXpos%> <NewYpos%>	Moves control <Ctl Id%> from its current position to <NewXpos%> <NewYpos%> on <Panel No%>.
Control Name	<Drv%> <Dbase%> <Min%> <Max%> <Panel No%> <FirstCtlId%>	Extracts database names for <Driver%> for <Min%> to <Max%> + names buttons on <Panel No%> starting <FirstCtlId%>.
Control Return	<Line%>	Specifies a stringtable line to be executed when the keyboard key is pressed.
Control Size	<Panel No%> <Ctl Id%> <NewXsize%> <NewYsize%>	Changes the dimensions of a control.
Control Text	<String\$> <Panel No%> <Min%> <Max%>	Places <String\$> into range of buttons between <Min%> and <Max%> on panel <Panel No%>.
Control Uncheck	<Panel No%> <Control Id%>	Removes a check mark from a check control or radio button.
Control Visible	<Panel No%> <Control Id%> [<Max Button ID >]	Hide the control (or range of controls with optional third parameter) – see CH
Device Enable	<0/1> <Workstation%> <Device%> <ReturnOffset%>	Enables or disables a device on a remote workstation and signals via <ReturnOffset%> success or failure.
Device Getdata	<Device%> <Index%> <Var\$>	Retrieves integer or string data from device <Device%>, destination or slot <Index%> and puts the result in <Var\$>.
Device Index	<Device%> <Min%> <Max%> <Index\$> <Var%>	Searches for strings or integers in the CSI cache for <Device%> between <Min%> and <Max%>, puts result in <Var%>.
Device List	<Panel No%> <ListBoxId%>	Fills a listbox with a table of all devices running on the local machine.
Device Mode	<Device%> < Workstation%> <TxRXMode%> <Error%>	A network status message results in a call to stringtable line 32400. <Device%> issued the call from < Workstation%> and if their <TxRxMode%> 0 = Closed gracefully, 1 = RXOnly, 2 = TxRX. <Error%> should = 0. See documentation on Resilience. Author: Simon Dowson
Device Profile	<Driver%> <Size0%> <Size1%> <Reassert%>	Instructs all CSI's in the system to create or modify a 'DEV_XXX.INI' file. <Reassert%> means overwrite with defaults.
Device Status	<Device%> <Version%> <Type%> <Sources%> <Dests%>	Similar to Device List but for a single specified device.
Exec Application	<PathName\$+ApplicationName+Arguments\$+sw> <ErrorBoxFlag%> <TranslateFlag%>	Launches another application. \/, :=; eg EA 'C:/BNCS/PANEL.EXE 123 0'. If sw = 0 error message not shown if panel cannot be found. If <ErrorBoxFlag%> = 0 then no message box on EA fail. If <TranslateFlag%> = 1 then '/' will not be translated to '\'.
Exec Backpanel	<Mode%> <Xsize%> <Ysize%> <Bitmap\$>	Modifies the back panel, 0=Off, 1=Grey, 2= Black,3=Bitmap, Bitmap must be part of RC file.
Exec Caption	<Mode%>	0=Caption On, 1=Caption Off, 2=Caption Unlock, 3=Caption Lock, If num% is 4, turns off the caption bar and border (different to EC 1 which just moves the caption bar off screen). If num% is 5, turns on the caption bar and border.
Exec Debug	<Var%>	0/1 for Variables (off / on). If num% is 2, turns off the Debug window. If num% is 3, turns on the Debug window. If num% is 4, turns off the output to Windows Debug Stream. If num% is 5, turns on the output to Windows Debug Stream. If num% is 6, turns off the Parser Trace output. If num% is 7, turns on the Parser Trace output. If num% is 8, turns off the Debug output. If num% is 9, turns on the Debug output

Exec Error	<On/Off%> <Var\$> <DisplayTime%> <OnLine%> <OffLine%>	If an error is detected in the stringtable during execution the error message can be put into <Var\$> and <OnLine%> executed.
Exec File	<Section\$> <Entry\$> <Var\$ or %> [0/1] [<FileName\$>]	Searches for <Entry\$> in the <Section\$> section of the private profile file <Filename\$> Searches the ConfigPath specified in file: bncc_config.ini then the windows directory. 0 (read), 1 (write) and <FileName\$> are optional. The default filename: "ApplCore.INI".
Exec Get	<Var%> <Offset%>	Puts the stringtable line number on which the current command is executing into <Var%>. <Offset%> is then added to <Var%>.
Exec Hide	<Panel No%> <Switch%>	If <Switch%>=0 panel is pushed to the bottom of all other panels. If <Switch%>=1 it's brought to the top. If <Panel No%>=0 then the whole app is moved complete with panels.
Exec Ignore	No parameters required	Anything following EI on a line is deemed to be a comment and ignored until the next colon.
Exec Kill	<Min Resources%>	Terminates least used ApplCore application if system resources are less than <Min Resources%> (percentage).
Exec Log	<Filename\$> <Var\$>	Adds the string <Var\$> to the end of the file <Filename\$>.
Exec Message	<Title\$> <Message\$> [<Mode%>]	Displays a message box with the heading <Title\$> and displaying the message <Message\$>. If <Mode%> parameter is missing or 0 (default) a message window pops up and command execution continues, if a 1, a message window pops up and command execution waits for the "OK" button to be depressed, then program execution continues.
Exec Nameday	<Day%> <Mon%> <Year%> <Var%><Var\$>	Returns the day of the week as number in <Var%> and as a string in <Var\$>.
Exec Override	<EOMin %> <EOMax%> <EOLine%> <EOldVar%>	The Exec Override command allows the setting of overrides for execution Id's between <EOMin%> and <EOMax%>. That is, setting of overrides from between <EOMin%> and <EOMax%> to go to line <EOLine%>. Note: in V2 EO was Exec Output Debug String – see EZ - Exec Z output debug string.
Exec Panel	<0/1>	If '0' the application is minimised. If '1' it is maximised.
Exec Quit	<Var%>	Causes the application to execute the closedown string table and quit if System resources are less than <Var%> percentage.
Exec Reboot	<Cmd\$>	<Cmd\$> option are REBOOT, LOGOFF, LOGOUT, and KILLCSI.
Exec Status	<Deviceld%> <DeviceWorkstation%> <Parameter = Value\$> <RevertiveLine%>	Query or set remote driver mode. 'TXRX=?' - Enquire current TXRX mode of device 'TXRX=1' - Set device to RxOnly 'TXRX=2' - Set device to TxRx 'TXRX=3' - Force device to TxRx Status string is returned to revertive line in S\$, Deviceld in S%. No response if targeted device is not running
Exec Timer	<TimerNumber%> <TimeDelay%> [<OffSet1%>] [<Offset2%>]	Enables timers. The time delay is in milliseconds up to a max of 32767. ET 1 gets current time/date in T\$ and W\$
Exec Unyield	<Var%>	If <Var%> =1 ApplCore ignores an Exec Kill instruction from another panel.
Exec Variable	<Var\$>	<Var\$> is executed as a single command line. May contain multiple commands.
Exec Workstation	<Var%>	Returns the Workstation ID number as set in the APPLCORE.INI file and places it in <Var%>.
Exec eXternal	<FunctionType%> <dllname\$> <entrypoint\$> <output%> <output\$> [<var1%> <var1\$> ... <var5%> <var5\$>]	EX <FunctionType%> <dllname\$> <entrypoint\$> <output%> <output\$> [<var1%> <var1\$> ... <var5%> <var5\$>] Executes function <entrypoint\$> in DLL dllname\$ using specified variable parameters and returns values into output% and output\$. Parameters var1%/var1\$-var5%/var5\$ are optional.
Exec Z output debug string	<string\$> or <Format\$> [<Var\$> or <Var%>...]	Sends <string\$> to the Windows default debug IO stream. This facility was supported in V2 ApplCore, but was deleted from the first versions of V3 (3.00.00). In V3 the command "EO" was reassigned to Exec Override. Starting with version 3.08.01 EZ also offers formatted output, see: SC command
File Directory	<Directory\$> <Panel No%> <ListBoxId%> <ResultVar%>	Fill a list box with file names from directory.
Gpi File	<Driver%>	Instructs the GPI driver <Driver%> to reload its 'Line Inversion' table from the drivers INI file.
Gpi Lock	<Driver%> <Min%> <Max%> <0/1>	Locks (0) or unlocks (1) all indices between <Min%> and <Max%> on <Driver%>.
Gpi Poll	<Driver%> <Min%> <Max%>	Polls the GPI for the status of indices between <Min%> and <Max%>.
Gpi Query	<Driver%> <Min%> <Max%>	Polls <Driver%> for status on all inputs or outputs between <Min%> and <Max%> on a private network session.
Gpi Register	<Driver%> <Min%> <Max%> <Offset%> <Mode%> [<DestVar%>] [<'ADD'>] [<DriverVar%>]	Registers for GPI revertives from <Driver%>. If <Mode%>=0 offset is static, 1= dynamic. Optional <DestVar%> will contain index value of changed input or output. Use <'ADD'> to append an existing registration. If the optional <DriverVar%> variable was specified at registration time, the variable is filled with the value of <Driver%> then the stringtable line is called.
Gpi Switch	<Driver%> <Index%> <0 or 1> <switch%>	Turns the given index on the GPI either on (1) or off (0). If optional <switch%> is 0 (default) command sent in normal packet else if 1 command sent immediately along with buffered command already waiting.
Gpi Unregister	<Driver%> [<Min%>] [<Max%>]	Un-Registers with given GPI driver <Driver%>. Use optional [<Min%>] [<Max%>] for selective de-registration.
HTML Close	<Identifier%>	Appends the required HTML closing syntax and closes the file.
HTML Delete	<Filename\$>	Deletes the specified <Filename\$>. The file must be closed first.
HTML Open	<Identifier%> <Filename\$> <Title\$> <Refresh%>	Creates an HTML file with the name <Filename\$> and a title of <Title\$> referenced by <Identifier%>. An automatic refresh period may be specified in <Refresh%>
HTML Rename	<Filename1\$> <Filename2\$>	Renames<Filename1\$> to be <Filename2\$>.
HTML Write	<Identifier%> <String\$>	Writes <String\$> to the open file referenced by<Identifier%>.

Info Directory	<RemoteWS%> <RemoteDir\$> <LocalFile\$> <Index%>	Requests from remote workstation <RemoteWS%> a directory listing of <RemoteDir\$> be put in local file <LocalFile\$>.
Info File	<Driver%> <Switch%> <Filename\$> <Var\$>	Requests InfoDriver <Driver%> to put string <Vars\$> in <Filename\$>. If <Switch%>=0 append otherwise create new file.
Info Get	<RemoteWS%> <RemoteFile\$> <LocalFile\$> <Index%>	Requests from remote workstation <RemoteWS%> the file <RemoteFile\$> to be copied to the local file <LocalFile\$>.
Info Hardcopy	<Driver%> <Var\$> <Switch%>	Requests InfoDriver <Driver%> to print <Var\$> on the logging printer. If <Switch%>=0 buffer up else print now.
Info Lock	<Driver%> <Min%> <Max%> <0 or 1>	Locks (1) or unlocks (0) all indices between <Min%> and <Max%> on <Driver%>.
Info Poll	<Driver%> <Min%> <Max%>	Polls InfoDriver <Driver%> to send all strings between <Min%> and <Max%> and return result in S\$.
Info Query	<Driver%> <Min%> <Max%> <Driver%> <Min%> <Max%>	The same as Info Poll except data is transferred on a private network session.
Info Register	<Driver%> <Min%> <Max%> <Offset%> <Mode%> [<SlotVar%>] [<'ADD'>] [<DriverVar%>]	Register slots from <Min%> to <Max%> in <Driver%>. If <Mode%>=0 offset is static, else dynamic. Optional <SlotVar%> will contain Slot Number. Use <'ADD'> to append an existing registration. If optional <DriverVar%> variable was specified at registration time, the variable is filled with the value of <Driver%> then the stringtable line is called.
Info Send	<LocalFile\$> <RemoteWS%> <RemoteFile\$> <Index%>	Requests that the local file <LocalFile\$> be copied to the remote file <RemoteFile\$> on workstation <RemoteWS%>.
Info Unregister	<Driver%> [<Min%>] [<Max%>]	Un-Registers with InfoDriver <Driver%>. Optional <Min%> & <Max%> can be used for selective de-registration.
Info Write	<Driver%> <Var\$> <Index%> <Switch%>	Requests InfoDriver <Driver%> to put string <Vars\$> in slot <Index%>. If optional <switch%> is 0 (default) command sent in normal packet else if 1 command sent immediately along with buffered command already waiting.
Jump Always	<Line%>	Jumps directly to line <Line%>. If line number is 0 then continues on same line.
Jump Compare	<Var1\$> <Var2\$> <Var3%> <Var4%>	If <Var1\$> equals <Var2\$> then line <Var3%> will be executed else line <Var4%>. If line number is 0 then continues on same line.
Jump Date	<Date1\$> <Date2\$> <Var3%> <Var4%> <Var5%>	Compares <Date1\$> with <Date2\$>. Jumps to <Var3%> if equal, <Var4%> if less and <Var5%> if greater. If line number is 0 then continues on same line.
Jump Equal	<Var1%> <Var2%> <Var3%> <Var4%>	If <Var1%> is equal to <Var2%> then execute stringtable line <Var3%> else execute stringtable line <Var4%>. If line number is 0 then continues on same line.
Jump Goto	<Index%> <Offset%> <VarList\$>	Gets item number <Index%> from comma delimited list <VarList\$>, adds the number found there to <Offset%> and jumps to that line.
Jump Instring	<Var1\$> <Var2\$> <Var3%> <Var4%>	If <Var1\$> is contained within <Var2\$> then line <Var3%> will be executed otherwise <Var4%> will be executed.
Jump Less	<Var1%> <Var2%> <Var3%> <Var4%>	If <Var1%> is less than <Var2%> then execute stringtable line <Var3%> else stringtable line <Var4%>. If line number is 0 then continues on same line.
Jump Offset	<Var1%> <Var2%>	<Var1%> is added to <Var2%> and the resulting line number is executed.
Jump Return	No parameters required	If a subroutine is being executed the JR will return the interpreter to the next command on the line (or next line) after the Jump Subroutine command which invoked the subroutine.
Jump Subroutine	<Var1%>	Jump to subroutine at line <Var1%>. Commands on that line and all subsequent lines of commands will be executed
Jump Time	<Time1\$> <Time2\$> <Var3%> <Var4%> <Var5%>	Compares <Time1\$> with <Time2\$>. Jumps to <Var3%> if equal, <Var4%> if less and <Var5%> if greater. If line number is 0 then continues on same line.
Key Register	<Offset%> <Char\$> <Ascii%> [<ControlMode%>]	Will divert individual key presses into variables <Char\$> and <Ascii%> and execute <Offset%> until KU command is called. Optional parameter <ControlMode%> 0 – original function, 1 – enhanced original, 2 – capture all keystrokes.
Key Unregister	No parameters required	Removes any key registration
List All	<String\$> <Panel No%> <ListBoxId%> <MemLoc%>	Searches a list box for <String\$>. Number of instances is put in <MemLoc%>. Indices placed in incrementing <MemLoc%>
List BlankErase	<Panel No%> <ListBoxId %>	Removes all blank lines from <Panel No%> <CtlId%>
List Clear	<Panel No%> <ListBoxId%>	Deletes the entire contents of the list box
List Delete	<Panel No%> <ListBoxId%>	Deletes the currently selected text from the list box.
List Erase	<String\$> <Panel No%> <ListBoxId%> <Mode%>	Erases <String\$> from a list box if found. If <Mode%> = 0 then the first instance will be erased if 1 the all instances will be erased.
List Find	<String\$> <Panel No%> <ListBoxId%> <Var%> <Sub%> [<FoundCount%>]	Searches for <String\$> in the list box pointed to by <Panel No%> <ControlId%>. <Var%> is the position in the list or zero if not found. If <Sub%> is 0 search for an exact compare, 1 search for a substring and 2 searches for a entry starting with <String\$>. Version 3.5.24 adds 3, 4 & 5, which perform the same test as 0, 1 & 2 but without checking for string case. Version 3.07.02 adds support for bit –based search operators includes new results variable [<FoundCount%>] : 0x40000001 -- Bit 0 = Case Sensitive(bit set to 1), Case Insensitive (bit set to 0) 0x40000002 -- Bit 1 = Reducing list search (bit set to 1), Non-Reducing list search (bit set to 0) 0x40000004 -- Bit 2 = Search from current**(bit set to 1), Search from start(bit set to 0) 0x40000008 -- Bit 3 = Exact match(bit set to 1), Inexact (partial) match (bit set to 0) 0x40000010 -- Bit 4 = Search within string (bit set to 1), Start of string (bit set to 0) 0x40000020 -- Bit 5 = Descending (bit set to 1), Ascending(bit set to 0) 0x40000040 -- Bit 6 = Alphabetical (bit set to 1), Index (insert) order (bit set to 0) 0x40001000 -- Bit 12 = Reload ListBox original data , then perform search(bit set to 0), Use current ListBox contents (bit set to 1)
List Get	<Panel No%> <ListBoxId%> <Var\$> <Var%>	Copies selected text in a list box control and puts it in a <Var\$>. The index of the selected item is placed in <Var%>.
List Hardcopy	<Panel No%> <ListBoxId%>	Copies the entire contents of a list box control to the printer.

List Item	<Switch%> <Item%> <Panel No%> <ListBoxId%> <Psn%>	If <Switch%> is 0 any highlight will be removed. If 1 then <Item> will be highlighted. <Psn%> is the number of lines down in the list box the highlighted item should appear.
List Load	<Filename\$> <Min%> <Max%> <Panel No%> <ListBoxId%>	Loads <Min%> to <Max%> whole lines from a text file into a List Box.
List Null	<Panel No%> <ListBoxId%>	Clears the keyboard buffer by momentarily switching focus away from the list box.
List Put	<Var\$> <Panel No%> <ListBoxId%>	Puts text from <Var\$> into <ListBoxId%>.
List Quantity	<Panel No%> <ListBoxId%> <Var%>	Gets the number of entries contained in the List Box <Panel No%> <ControlId%> and returns the result in <Var%>.
List Router	<Rtr%> <Switch%> <Min%> <Max%> <Panel No%> <ListBoxId%> [<Index List\$>]	Extracts source or destination names between <Min%> and <Max%> and places them in List Box <PnId%> <CtlId%>. <Switch%> selects the database. If <Min%>=0 and <Max%>=0 the list of indices will come from a comma delimited list in <Index List\$>.
List Save	<Filename\$> <Panel No%> <ListBoxId%>	Save a List Box to a text file.
List Trim	<String\$> <Panel No%> <ListBoxId%> <Mode%>	Requires BBC_CC17.dl / BNCS_CC17.dll. Searches a ListBox string <String\$> and if <Mode%>=0 All text removed except for an exact match of <String\$>, 1 All text removed except for strings that start <String\$>, 2 All strings removed except those which contain <String\$>
List Up	<Switch%> <Panel No%> <ListBoxId%>	Shows or hides the contents of a combo List Box pointed to by <Panel No%> <ListBoxId%>
List Vertical	<Panel No%> <ListBoxId%> <Vert%>	Adds a space of size <Vert%> in pixels between lines of text for ListBox<ListBox%> on Panel <Panel No%>
List Width	<Panel No%> <ListBoxId%> <Width%>	Sets the gap between columns in a multi-column list box to <Width%> pixels.
List eXtract	<Panel No%> <ListBoxId%> <Index%> <Var\$>	Extracts the string at position <Index%> from List Box <ListBox%> on panel <Panel%> and put the result in <Var\$>
Memory Ascii	<Min%> <Max%> <Var\$>	Takes contents of all memory locations between <Min%> and <Max%> and produces a space delimited string in <Var\$>.
Memory Dec.	<Loc%>	Decrements memory location <Loc%> by 1.
Memory Find	<Find%> <Min%> <Max%> <Var%>	Searches for <Find%> between <Min%> and <Max%>. If found the memory location number is placed in <Var%>.
Memory Get	<Number%> <Var%>	Gets the contents of memory <Number%> and puts it into <Var%>. <Number%> is between 1 and 10000.
Memory Inc	<Loc%>	Increments memory location <Loc%> by 1.
Memory Logic	<Function\$> <Min%> <Max%> <Var%>	Perform logic function <Function\$> on a range of memory locations between <Min%> and <Max%> and returns the result in <Var%>. <Function\$> can be AND, NAND, OR or NOR, MIN or MAX.
Memory Move	<Min%> <Max%> <Start%>	Takes contents of memory locations between <Min%> and <Max%> and puts them incrementally starting at <Start%>.
Memory Put	<Var%> <Number%>	Gets the contents <Var%> of and puts it into memory <Number%>.
Memory Read	<Filepath+name <Min%> <Max%>	Retrieves integer memory locations between <Min%> and <Max%> from the file <Filepath+name>.
Memory Set	<Var%> <Min%> <Max%>	Sets the contents of all memory locations between <Min%> and <Max%> to <Var%>.
Memory Write	<Filepath+name <Min%> <Max%>	Stores integer memory locations between <Min%> and <Max%> in the file pointed to by <Filepath+name\$>
Integer Memory Application note: For V2 and V3 the maximum "integer" memories is: 10000.		
Number Add	<Var1%> <Var2%> <Var3%>	Adds <Var1%> to <Var2%> and puts the result into <Var3%>.
Number Bit	<Value1%> <Operator\$> <Value2%> <Result%>	Supported operator keywords: And, Or, Not, Sr, Sl, Xor, Set, Clr and Test. (or "C" language symbols: &, , ^, ~, >>, <<)
Number Convert	<Var%> <Var2\$> or <Var\$> <Var%>	Converts string variables to integer variables and vice versa
Number Divide	<Var1%> <Var2%> <QuotientVar3%> <RemainderVar4%>	Divides integer <Var1%> by <Var2%> and puts the quotient in <QuotientVar3%> and the remainder in <RemainderVar4%>
Number Format	<Num%> <Format\$> <Pad\$> <Var\$>	Inserts the number supplied in <Num%> using the string supplied in <Format\$> which contains "#" as placeholder characters indicating the position which the text should be inserted and <Pad\$> will replace the remaining characters. Result returned <Var\$>
Number Get	<Panel No%> <Control%> <Var%>	Gets the contents of <Control%> on <Panel No%> and places its integer value <Var%>
Number Load	<Number%> <Var%>	Puts a numeric value into a numeric variable. <Var%> can be between A%> and Z%>.
Number Multiply	<Var1%> <Var2%> <Var3%>	Multiplies integers <Var1%> by <Var2%> and puts the result in <Var3%>
Number Put	<Number%> <Panel No%> <Control Id%>	Puts a numeric value into a control.
Number Random	<Min%> <Max%> <Var%or\$>	Generates a random number between <Min%> and <Max%> and places it in a variable.
Number Subtract	<Var1%> <Var2%> <Var3%>	Subtracts <Var2%> from <Var1%> and puts the result into <Var3%>. i.e. v1% - v2% = v3%
Number Transfer	<Var1%> <Var2%>	Copies <Var1%> to <Var2%>. <Var1%> remains the same.
Panel Deinitialise	<Panel No%>	Similar to PR (Panel Remove) except that the panel is destroyed.
Panel Initialise	<Panel No%>	Initialises a panel without showing it on the screen.
Panel Move	<Panel No%> <NewXPos%> <NewYPos%>	Moves a panel to a new location on the screen. Moves dialog dialog% to screen position x%, y%. If dialog% is 0, it moves the backpanel rather than a dialog.
Panel Remove	<Panel No%>	Removes a panel.
Panel Show	<Panel No%>	Shows a panel.
Panel View	<Switch%> <Panel No%> <Icon\$>	If <Switch%> is '0' then <Panel No%> is minimised showing <Icon\$>. If <Switch%> is '1' <Panel No%> is restored.
Panel siZe	<Panel No%> <cx%> <cy%>	Sizes dialog <PanelNo%> to size <cx%>, <cy%>. If <Panel No%> is 0, it sizes the backpanel rather than a dialog.
Query Child	<Panel No%> <control%> <var%>	Gets the window handle of control <control%> on dialog <Panel No%> into var%.

Query Desktop	<width%> <height%>	Gets the desktop screen size into the specified variables.
Queue Flush		Directs CSI32 to "send queued commands/revertives now".
Query Handle	<Panel No%> <var%>	Gets the window handle of dialog <Panel No%> into var%. If dialog% is 0, it gets the window handle of the backpanel.
Query Parent	<num%> <var%>	Gets the window handle of the parent of window handle num% into var%.
Router Crosspoint	<Driver%> <Source%> <Destination%> [<Mask\$>] [<Switch%>]	Routes <Source%> to the <Destination%> on <Driver%>. Optional <Mask\$> is used with virtual drivers (VRD, Combiner etc.). If optional <Switch%> is 0 (default) command sent in normal packet else if 1 command sent immediately along with buffered command already waiting.
Router Database	<Driver%> <Database%> <Index%> <MappedID%>	Extracts the <Driver%>, <Database%> & <Index%> database change info. <MappedID%> will contain a mapped Id if any – Note <MappedID%> must be supplied.
Router File	<Driver%>	Tells <Driver%> to reload its INI file.
Router Index	<Driver%> <DataBaseNumber%> <Var\$> <Index%>	Gets the Source or Destination index for name <Var\$> from <Driver%> and puts it in <Index%>. Access DB [0-9]
Router Lock	<Driver%> <Min%> <Max%> <Var%>	If <Var%> is 1 then all destinations on <Driver%> between <Min%> and <Max%> are locked. A destination can not be changed when it is locked. Use <Var%> set to 0 to unlock a destination or range of destinations.
Router Modify	<Driver%> <Database%> <Index%> <Name\$> <Flag%>	Instructs CSI's to change <index%> in database <Database%> for driver <Driver%>. <Name\$> = new name. <Flag%> =0/1, subsequent tallydump or not.
Router Name	<Driver%> <Database%> <Index%> <Var\$>	Gets the database <Database%> name for <Index%> from <Driver%> and puts it in <Var\$>.
Router Poll	<Driver%> <Min%> <Max%>	Polls the given router for status between <Min%> and <Max%>.
Router Query	<Driver%> <Min%> <Max%>	Polls <Driver%> for the status of all destinations between <Min%> and <Max%>. Private Session
Router Register	<Driver%> <Min%> <Max%> <Offset%> <Switch%> [<Dest%>] [<'ADD'>] [<DriverVar%>]	Registers with the router between <Min%> and <Max%>. If <Switch%>=0 offset is static, else dynamic. Optional <Dest%> will contain the Destination index. Use <'ADD'> to append an existing registration. If the optional <DriverVar%> variable was specified at registration time, the variable is filled with the value of <Driver%> then the stringtable line is called.
Router Unregister	<Driver%> [<Min%>] [<Max%>]	Un-Registers with router <Driver%>. Optional <Min%> & <Max%> can be used for selective de-registration.

String Appname	<Var\$>	Puts the application name of the panel that is executing into <Var\$>. For compatibility with V1/V2, the name is all "upcase". Name in <Var\$> is of the form: name.EXE an panel with the name on disk of Name.EXE will return 'NAME.EXE" in <Var\$>, and shows 'NAME_###' in the task bar and task manager, where ### is the three digit workstation number.
String Compose	<var1\$> <var2\$> [<var3%> <var3\$> ...]	Outputs a C sprintf() style string to var1\$ using a format string in var2\$ and a variable number of parameters in <var3%> / <var3\$>, var4%/var4\$ etc. The format string may use almost any string/numeric format specifier e.g. %u, %d, %s etc. but %c does NOT work. Parameters <var3%> / <var3\$> and above are optional.
String Date	<Start\$> <Offset%> <New\$> <Day%> <Month%> <Year%>	Calculates a new date based upon <Date\$> and an offset in <Days Offset%>. The new date is placed in <New\$> and the day, month and year integers placed in <Day%>, <Month%> and <Year%> respectively.
String Environment	<Search\$> <Var\$>	Retrieves the Environment Variable <Search\$> from your local machine and puts it in <Var\$>
String Find	<Find\$> <Min%> <Max%> <Var%>	Searches for the first instance of string <Find\$> between string memory locations <Min%> and <Max%>. Result placed in <Var%>.
String Get	<Number%> <Var\$>	Gets the contents of memory <Number%> and copies it into <Var\$>.
String Hex	<Number%> <Target\$> <Zeros%> <CaseSwitch%>	Converts decimal <Number%> into Hex and put the result into a string <Target\$>. <Zeros%> specifies the leading zeros. If <CaseSwitch%> = 0 <Target\$> will be lower case, 1 = upper case.
String Interval	<NowDate\$> <NowTime\$> <OrigDate\$> <OrigTime\$> <Result\$>	Returns the elapsed time in hours minutes and seconds in the <Result\$> using the form: hours:minutes:seconds
String List	<Min%> <Max%> <Delimiter\$> <Result\$> <Switch%>	Gets the contents of memory locations between <Min%> and <Max%> and creates a delimited list, using first character of <Delimiter\$>. The result is put in <Result\$>. If <Switch%>=0 then integer memories are used otherwise string memories are used.
String Message	<Var\$>	The string <Var\$> is sent to the network as a verbatim universal revertive message. CSI's in the system will ignore it, but CAPLOG.EXE will pick it up and store it in the log files.
String Nameapp	<NewName\$>	Renames panel to be <NewName\$>.exe in the task bar and task manager. For compatibility with V1/V2, the name is all "upcase". Name in <NewName\$> is of the form: name.EXE an panel with the name on disk of Name.EXE , setting to 'NAME123.EXE" in <NewName\$>, will show 'NAME123_###' in the task bar and task manager, where ### is the three digit workstation number.
String Put	<Var\$> <Number%>	Gets the contents <Var\$> of and copies it into memory <Number%>.
String Query application name	<FileName\$> <AdditionalNameCharacters\$> <Result%>	Queries for the application program consisting of the <FileName\$> concatenated to <AdditionalNameCharacters\$>. If the application is running SQ returns 1, if not running SQ returns 0.
String Read	<Filepath+name\$> <Min%> <Max%>	Retrieves lines of strings from the file <Filepath+name\$> and places these in memory locations between <Min%> and <Max%>.
String Set	<Var\$> <Min%> <Max%>	Copies the contents of <Var\$> to all memory locations between <Min%> and <Max%>.
String Timecode	<Switch%> <Var1\$> <Var2\$>	Converts a string representing an integer number of fields into a colon delimited timecode string and vice versa. <Switch%> can be 0 to 4 inclusive – see web site for full details.
String Write	<Filepath+name\$> <Min%> <Max%>	Stores strings from memory locations between <Min%> and <Max%> in the file pointed to by <Filepath+name\$>.
		String Memory Application note: For V2 and V3 the maximum "string" memories is: 4096.
Text Break	<String\$> <NumCharacters%> <TargetString\$>	Adds the line break character ' ' (pipe) to <String\$> after <NumCharacters%> number of characters and places the resulting string into <TargetString\$>
Text Copy	<Panel No%> <Control Id%> <Panel No%> <Control Id%>	Copies the text from one control to another.
Text Divide	<String\$> <Delimiter\$> <Part1\$> <Part2\$>	Divides a string into two at <Delimiter\$. <Part1\$> is the string up to the delimiter and <Part2\$> contains the rest
Text Edit	<Command\$> <Var\$> <Options%>	<Commands\$> = BACKSPACE, DELETE, SLASH & CASE – See Web for full details
Text Filter	<String\$>	Removes all carriage returns, line feeds and single quotation marks from a string
Text Get	<Panel No%> <Control Id%> <Var\$>	Gets the text from a control and puts it in a string variable.
Text Horizontal Tab	<String\$> <Delimiter\$> <Switch%>	If <Switch> is 0 all occurrences of first character of <Delimiters\$> are relaced with tabs. If <Switch> is 1 then the reverse happens.
Text Insert	<Var1\$> <Var2\$>	Adds <Var1\$> to the end of <Var2\$> and places the result in <Var2\$>.
Text Load	<Text\$> <Var\$>	Put text into a string variable.
Text Move	<Panel No%> <Control Id%> <Panel No%> <Control Id%>	Moves the text from one control to another.
Text Put	<Text\$> <Panel No%> <Control Id%>	Gets the text from a local variable and places this text in ID (button or text window).
Text Quantity	<Var\$> <Var1%>	Returns the length of string <Var\$> in user variable <Var%>
Text Remove	<Var1\$> <Var2\$>	Removes the first occurrence of <Var1\$> in <Var2\$> and places the result in <Var2\$>.
Text Split	<Var\$> <Delimiters\$> <IntMemLoc%> <StringMemLoc%>	Splits <Var\$> using <Delimiters\$> and stores the numbers starting <IntMemLoc%> +1. The number stored is put in <MemLoc%>. <StringMemLoc%> works in the same way putting the result in the string memories. A zero disables that particular split.
Text Transfer	<Var1\$> <Var2\$>	Copies <Var1\$> to <Var2\$>. <Var1\$> remains the same.
Text Write	<Var1\$> <Var2\$>	Writes <Var1\$> to filepath <Var2\$>. <Var2\$> can be a full filepath and filename.

Text eXchange	<Var\$> <Switch%>	If <Switch%> is '0' replaces any occurrence of certain characters with other characters as follows: 1) semi colons are changed to colons 2) / are changed to \\ (one forward slash change to two back slashes) 3) is changed to <CR> (vertical bar changes to carriage return). Special case regarding <CR><LF> if TxVerticalBarCRLF environment variable is non-zero. 4) single back quote (96.) are changed to Single forward quote "tick" (39.) If <Switch%> is '1' it does the opposite.
UMD Enable	<Var%>	If <Var%> is 1 the UMD driver is enabled. <Var%> set to 0 disables the driver.
UMD Put	<Var\$> <Chain%> <Port%> <Lamps%> <Brightness%>	(For Pro-Bel & TSL) Sets UMD on <Chain%>, <Port%> to display <Var\$>. <Lamps%> = 0 to 4. Note : <Brightness%> only applies to TSL UMD's
UMD Put	<Var\$> <Chain%> <Port%> <LeftColour%> <RightColour%>	(For Amazon) Sets UMD on <Chain%>, <Port%> to display <Var\$>. <LeftColour%> & <RightColour%> = 0 to 3
Video Adjust	<Board%> <CONTROL> <Value%>	Adjusts a video board control. CONTROL is one of the following: BRIGHTNESS, CONTRAST, COLOUR or TINT.
Video Channel	<Board%> <Channel%>	Changes the UHF Tuner channel on the Hauppauge Win-Tv card
Video Disable	<Board%> <ControlId%>	Turns off overlaid video.
Video Enable	<Panel%> <Control%> <CaptureName\$>	Turns on overlaid video. The VI command must have been executed prior to using this command. With Version 3.5.24 "VideoCaptureApplication" in the ApplCore.INI file is re-read with each VE command execution.
Video Fit	<Board%> <Panel No%> <Control Id%>	Places overlaid video onto a control correctly scaled.
Video Initialise	<Board%>	Initialises the video board.
Video Position		Command obsolete.
Video Source	<Board%> <Source%>	Changes the source on the Hauppauge Win-TV card
Video Write	<Board%> <Filename\$> <FileType%>	Takes a snapshot of the video being captured by <Board%> and stores it in <Filename\$> The <FileType%> determines the format of the file and can be one of the fourteen options. See Web site for <File Type%>
Workstation Enable	No parameters	Tells CSI to enable its cache
Workstation Disable	No Parameters	Tells CSI to disable its cache
Workstation Flush	<Device%>	Tells CSI to flush its cache for device <Device%>.
Workstation Test	<Device%> <Min%> <Max%> <Var%>	Tests the CSI cache validity for device <Device%> for indices between <Min%> and <Max%>, returning the result in <Var%>.
eXternal Crosspoint	<Driver%> <Source%> <Destination%> [<UpdateTallyTableOnly%>] [<Mask\$>] [<WorkstationNumber%>]	Instructs a router driver <Driver%> to route <Source%> to <Destination%>. The <UpdateTallyTableOnly%> parameter is optional. If 0 (default) the command also results in a network revertive being issued, if non zero only the client and GRD internal tally table are updated. Parameters [<Mask\$>] [<WorkstationNumber%>] added for version 3.08.21 and later.
eXternal Data	<Driver%><Index%> <Data%> <Data\$> <Workstation%>	Used after the XR command the XD command allows the panel to receive notification of the driver receiving a command. All the parameters should be variables to collect the data.
eXternal GetInfo	<Driver%> <Index%> <InfoVar\$>	Requests <Driver%> to directly return in <InfoVar\$> the information for destination (or GPI IO, or InfoDriver slot) <Index%>
eXternal Intercept	<Driver%> <Offset%>	Specifies a stringtable line to be called when it is desired to intercept a command to a driver for pre-processing, The <Offset%> line is called when ever a command has been intercepted and the eXternal Data command can be used to retrieve the details.
eXternal redundancy Notify	XN <Driver%> <Offset%>	Notify that redundancy state of external driver has changed. Use DM command to get the driver/state. Must be registered as external client for this to work.
eXternal Poll	XP <Driver%> <Min%> <Max%>	Polls <Driver%> for status between <Min%> and <Max%>. For Router drivers S% will contain the source number and S\$ will contain the name of the source as defined in the INI file for that router driver. For GPI drivers S% will contain the 0/1 state of the I/O Line. S\$ will contain the name of the IO line as defined in the INI file for that GPI driver. For Info drivers S% will contain the slot number and S\$ will contain the slot contents.
eXternal Register	<Driver%> <Min%> <Max%> <Offset%> <Offset Mode%> [<Dest%>] [<"ADD">]	Registers with driver <Driver%> for indices between <Min%> and <Max%>. <Offset%> and <OffsetMode%> determine where and how revertive information will be delivered. If <Mode%>=0 offset is static, 1= dynamic. Optional <Dest%> will contain index value of changed input or output. Use <"ADD"> to append an existing registration. [<Dest%> <"ADD">]
eXternal Switch	<Driver%> <I/O Line%> <0/1> [<UpdateTallyTableOnly%>] [<WorkstationNumber%>]	Instructs a GPI driver to change the state of an I/O Line. The <UpdateTallyTableOnly%> parameter is optional. If 0 (default) the command also results in a network revertive being issued, if non zero only the client and GPID internal tally table are updated. Parameter [<WorkstationNumber%>] added for version 3.08.21 and later.
eXtra Timer	<Switch%> <Var%>	If <Switch%> is 1 the system timer is started. If <Switch%> is 0 the timer is stopped and the result in milliseconds placed <Var%>
eXternal Unregister	<Driver%> [<Min%>] [<Max%>]	Following this command no further status updates will be returned to the application for the <Driver%>. Optional <Min%> & <Max%> can be used for selective de-registration.
eXternal Write	<Driver%> <Var\$> <Slot%> [<UpdateTallyTableOnly%>] [<WorkstationNumber%>]	Instructs an InfoDriver to place the contents of <Var\$> in <Slot%>. The <UpdateTallyTableOnly%> param is optional, if 0 (default) the command also results in a network revertive being issued, if non zero only the client and the infodriver slot are updated. Parameters [<Mask\$>] [<WorkstationNumber%>] added for version 3.08.21 and later.

V3 ApplCore Quick Reference Guide revision history:

- Previous edition V3.02.14 dated 06/03/2006
- Update to match version V3.05.21 ApplCore – Steve Jensen, dated 12-July-2007
- Updated to add documentation for several new commands added by Simon to support Paul Ratcliffe's needs – Steve Jensen, dated 12-Dec-2007
- Update to include Exec Status, File Directory & String Interval commands documentation – Steve Jensen, dated: 04-Feb-2008
- Updated TX documentation and tidied up spelling – Steve Jensen, 19-Aug-2008
- XR XU enhanced to match GR/IR/RR commands – Steve Jensen, 12-Jan-2009
- EM enhanced – Steve Jensen, 16-March-2009
- Updated XR documentation. XR enhanced in V3ApplCore version 3.05.36 – Steve Jensen, 20-April-2009
- Corrections of SA & SN commands documentation – Steve Jensen, 23-April-2009
- Updated documentation for maximum string and integer memories – Steve Jensen, 14-May-2009
- Cleaned-up documentation for EX, PZ, QC, QD, QH, QP, SC & TX – Steve Jensen, 18-May-2009
- Spelling correction – Steve Jensen, 19-May-2009
- Added RR / IR / GR [<DriverVar%>] – Steve Jensen, 17-July-2009
- Minor documentation format changes – Steve Jensen, 21-Sept-2009
- Correction to DM documentation – Steve Jensen, 07-Oct-2009
- Correction to ER description – Steve Jensen, 22-April-2010
- Adds XN command DGY 23/04/2010
- Corrected spelling errors, updated / corrected XS, XW, XR documentation – Steve Jensen, 26-May-2010
- Correction of description of TX command – Steve Jensen, 05-August-2010
- Correction of LQ spelling error, EF ref. to ApplCore.ini, SA & SN corrections regarding 8 character filename limit and correction of ML – Steve Jensen, 15-September-2010
- Correction of EF ref. to ApplCore.ini – Steve Jensen, 03-October-2010
- Updated EO documentation – Steve Jensen, 10-November-2010
- Updated EF, NB documentation – Steve Jensen, 10-November-2010
- Updated RI documentation, now includes DB [0-9] – Steve Jensen, 17-November-2010
- Updated KR and added SQ – Steve Jensen – 27-January-2011
- Corrected to description in TX – Steve Jensen – bug 1930 – 03-March-2011
- Bug fix to LF command overwriting variable – bug #1992 – 23-March-2011
- Correction to description of EF – Steve Jensen – 30-March-2011
- Update of ES description – Steve Lowe / Steve Jensen – 22-Dec-2011
- Correction to EM, parameter 3 <Mode%> is optional – Steve Jensen – 06-Jan-2012
- Updated EZ command – Steve Jensen – 17-Feb-2012
- Corrected AP parameter, DI fourth parameter is a string, EE, EZ & TH parameters, Corrected VD parameters, VP obsolete – Steve Jensen – 21-Feb-2012
- Added QF command – Steve Jensen – 27-March-2012
- Tidied up Lx commands parameters names – Steve Jensen – 09-April-2012
- Updated descriptions for ES, GR, IR, RR, XC, XR, XS, XW – Steve Lowe – 13-April-2012
- Added <ImmediateFlag%> to AP command – Steve Jensen – 24-May-2012
- AP command parameter <Offset%> is optional. ET command <OffSet1%> and <OffSet1%> are optional – Steve Jensen – 26-Feb-2013
- Updated documentation for Jx commands – Steve Jensen – 05-March-2013
- Updated documentation for Xx commands (XC, XS & XW) – Steve Jensen – 29-August-2013
- Added <WorkstationNumber%> parameters to XS & XW – Steve Jensen – 04-Sept-2013
- Updated the EA reference to include parameters descriptions – Steve Jensen – 02-Dec-2013
- Updated ND description return variables to <QuotientVar3%> and <RemainderVar4%> – Steve Jensen – 07-Dec-2013
- Release 3.08.28 – Steve Jensen – 09-Jan-2014
- Minor documentation / format changes & Release 3.08.29 – Steve Jensen – 18-Feb-2014
- Release 3.08.33 – support for 4.5 installation environment – Steve Jensen – 20-Mar-2015
- Release 3.08.34 – correction for XW parameter checking issue – Steve Jensen – 11-June-2015
- 3.08.38 – adds CH and CV commands