



# **BNCS Custom Controls**

## **BBC\_CC10 AVI Library**

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# Custom Control Library 10

## 1. Introduction

This library was developed primarily for use with ApplCore, a generic control panel core application. The existing control libraries provided by Microsoft and Borland at the time did not contain sufficient controls to exploit the highly flexible Windows environment when used in control panel applications.

This library contains a control which allows the playback of AVI movie files.

Two versions are provided the 16bit V1/V2 version file: BBC\_CC10.DLL and the 32bit V3 version file: BNCS\_CC10.DLL

## 2. Controls

- **AVI Button**

The Text Put (TP) ApplCore command is the interface to the AVI play control commands. The controls are follows:

- **START** – start playing the previously loaded AVI clip.  
i.e. TP '/START' <PanelNumber%> <AVI Control ID%>
- **STEPBACKWARDS** – step backwards from current position.  
i.e. TP '/STEPBACKWARDS ' <PanelNumber%> <AVI Control ID%>
- **STOP** – stop playing the AVI clip.  
i.e. TP '/STOP' <PanelNumber%> <AVI Control ID%>
- **PLAY** – play previously loaded the AVI clip.  
i.e. TP '/STEPBACKWARDS' <PanelNumber%> <AVI Control ID%>
- **STEPFORWARDS** – step forwards from current position.  
i.e. TP '/STEPFORWARDS' <PanelNumber%> <AVI Control ID%>
- **END** – stop playing current clip.  
i.e. TP '/END' <PanelNumber%> <AVI Control ID%>
- Specify the file name to play by sending the file name using the TP command. This loads the movie / clip.  
i.e. TP 'SpecialClip.AVI' <PanelNumber%> <AVI Control ID%>

Writing a string with out the command introducer character "/" (forward slash) assumes that the string contains the file name so restarts the movie (closes and then reopens using the specified filename). When a MCI notification event occurs the String Table line number corresponding to the controls' ID number is executed, i.e. in the example above the control ID number is 100, so String Table line number 100 is executed.

Example String Table lines where panel number 2 has AVI control number 199:

103, "TP '/START' 2 199"  
104, "TP '/STEPBACKWARDS' 2 199"  
105, "TP '/STOP' 2 199"  
106, "TP '/PLAY' 2 199"  
107, "TP '/STEPFORWARDS' 2 199"  
108, "TP '/END' 2 199"

### 3. Application Notes

For further information review:

ApplCore Text Put command in document:

**v3\_applcore\_commands.pdf**

Normally the library is used in support of ApplCore. The library uses the MCI system and the mciSendString() programming interface to control the video movie playback.

To add a AVI CC10 control to a panel in Borland Workshop, when editing the panel Dialog use the Control menu pull-down and access "Custom...". Select "BBC AVI Button" in the "Class" menu list. Press "OK" and place and size the control on the panel Dialog.

Please note when the library is used with a Windows program other than ApplCore it can be useful to know what Windows messages the library responds to and utilises.

The Windows used / responded to include:

1. WM\_CREATE
2. WM\_DESTROY
3. WM\_SIZE
4. WM\_QUERYNEWPALETTE
5. WM\_PALETTECHANGED
6. WM\_ACTIVATE
7. MM\_MCINOTIFY
8. WM\_SETTEXT
9. WM\_PAINT
10. WM\_LBUTTONDOWNBLCLK
11. WM\_LBUTTONDOWN
12. WM\_LBUTTONUP
13. WM\_ENABLE

Example test panel: (uses file: CANYON2.AVI)

```
#define PANEL_2 2
#define NUM2 2
#define TEST2 2
#define STARTUP 30000
#define COMMAND 101
#define TEST 1

TEST DIALOG 121, 81, 320, 234
STYLE WS_POPUP | WS_CAPTION
CLASS "BORDLG"
CAPTION "Custom Control Test Panel"
{
  CONTROL "Reverse|Step", 101, "BBC_CC_Button", 1 | WS_CHILD | WS_VISIBLE, 99, 147, 32, 20
  CONTROL "Stop", 102, "BBC_CC_Button", 1 | WS_CHILD | WS_VISIBLE, 131, 147, 32, 20
  CONTROL "Play", 103, "BBC_CC_Button", 1 | WS_CHILD | WS_VISIBLE, 163, 147, 32, 20
  CONTROL "CANYON2.AVI", 100, "BBC_CC10_Button", 1 | WS_CHILD | WS_VISIBLE, 98, 24, 128,
  120
  CONTROL "Forward|Step", 104, "BBC_CC_Button", 1 | WS_CHILD | WS_VISIBLE, 195, 147, 32, 20
  LISTBOX 111, 228, 24, 49, 119, LBS_NOTIFY | LBS_NOINTEGRALHEIGHT | WS_CHILD |
  WS_VISIBLE | WS_BORDER | WS_VSCROLL
}

STRINGTABLE
BEGIN
  STARTUP, "EB 0"
  30001, "PS 1"
  30002, "LP 'CANYON.AVI' 1 111"
  30003, "LP 'CANYON1.AVI' 1 111"
  30004, "LP 'CANYON2.AVI' 1 111"
  30005, "LP 'BBC.AVI' 1 111"
  30006, "LP 'COOL.AVI' 1 111"
  30007, ""
END

STRINGTABLE
BEGIN
  100, "TP '/START' 1 100"
  101, "TP '/STEPBACKWARDS' 1 100"
  102, "TP '/STOP' 1 100"
  103, "TP '/PLAY' 1 100"
  104, "TP '/STEPFORWARDS' 1 100"
  105, ""
  106, ""
  107, ""
  108, ""
  109, ""
  110, ""
  111, "LG 1 111 A$:TP A$ 1 100:TP '/PLAY' 1 100"
END
```

## 4. Version History

- Document version 1.1 - The previous version of BBC\_CC10.DLL is dated 09-August-2001. No version number – I have assumed it to be version 1.1
- Document version 1.2 - BNCS\_CC10 Version: 3.02.03, Dated: 30-July-2013, Initial revision of this document. BBC\_CC10.DLL has no build date or version information within the library until the version build on 03-Oct-2013 which is version 1.02.00. SPJ
- Document version 1.3 – add more functional description.



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