

CE94930 — Introduction to Visual BASIC

- Review
- Working with the Clipboard
- DDE -- Dynamic Data Exchange

Clipboard

- Standard component of Windows
- Temporary/transient storage
- Different types of data
- Clipboard viewer

The VB Clipboard

- Invisible object
- No properties or events
- Methods:
 - Clear
 - GetFormat, GetData, GetText
 - SetData, SetText

An “Edit” menu

- Edit: cut, copy and paste to/from clipboard
- Typically work on selected text

Text selection

- Text and Combo controls
- Select portion of text with mouse
- Properties:
 - SelStart
 - SelLength
 - SelText
- Read/write: can be used to change contents

An “Edit” menu

- Use text selection together with Clipboard methods
- Example
- Problem: too specific

ActiveControl

- Property of Screen built-in object
- Typical use: `Form1.ActiveControl.Text`
- Can declare object variables:
 `dim target as control`
 `set target = form1.ActiveControl`
 `target.text = "this is text"`
- Also `Screen.ActiveForm`

Clipboard data format

- Clipboard supports various data formats
- How to generalize code?
- Use “TypeOf”:
if TypeOf screen.ActiveControl Is TextBox then
 clipboard.SetText screen.ActiveControl.Text
elseif TypeOf screen.ActiveControl Is PictureBox then
 clipboard.SetData screen.ActiveControl.Image
end if
- Example

DDE -- Dynamic Data Exchange

- Move data directly between applications
- Update is (usually) automatic
- Source: where the data comes from
- Destination: where the data goes
- Destination initiates a *conversation*, requesting data from the source
- Not supported by all applications

DDE conversations

- Initiated by destination
- Specify name of source and topic of conversation
- Exchange items of information
- Can create both source and destination with VB

Sources

- DDE source is application-name
- DDE topic is form LinkTopic property
- Conversation items are names of text, label or picturebox controls

Destinations

- Destination of conversation is any text, label or picturebox control
- Destination properties:
 - LinkMode: none, automatic, manual, notify
 - LinkTopic: “*application|topic*” of source
 - LinkItem: “*control-name*” of control on source