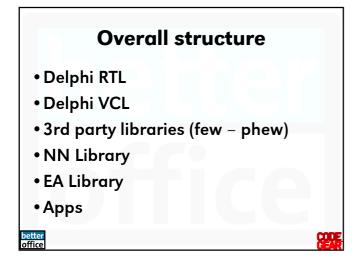
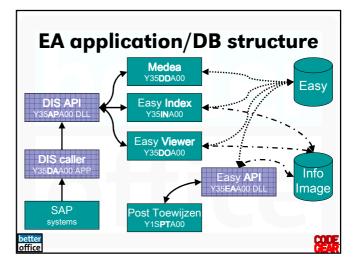
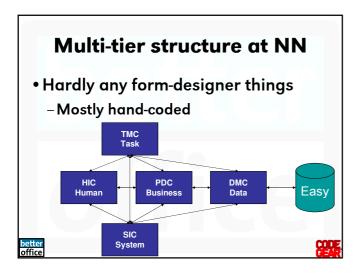
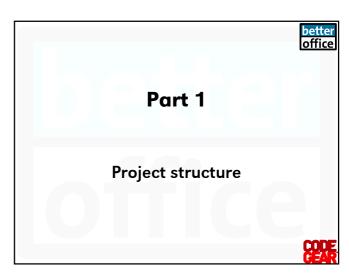


But Code should still be as much compatible to Delphi 5 as possible Reasons: Some applications outside our scope depend on the library layers and were staying at Delphi 5 It enables potential regression testing both in Delphi 5 and Delphi 2006



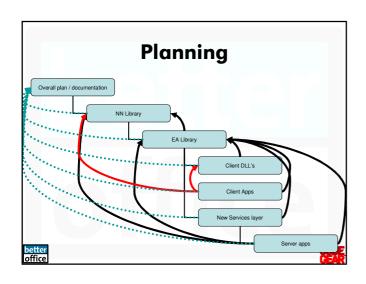


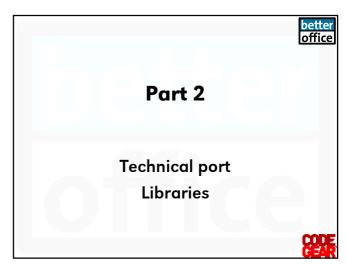


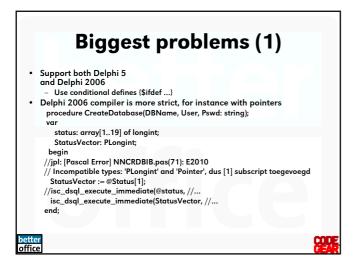


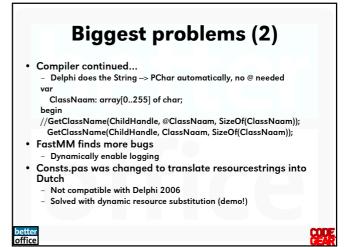












Easier issues (1)

- Variants require new Variants unit
- Classes need to implement Interfaces more strictly
 - Use methods/properties from interface in exactly the same way (i.e. use const, var, etc)
- TControl.SetAutoSize introduced in Delphi 7
 - procedure SetAutoSize(Value: Boolean);{\$ifdef d7up} override; {\$else} virtual; {\$endif}





Easier issues (2)

- Some consts moved over to other units:
 - RTLConsts, VDBConsts (Delphi 7+)
- Sometimes, TypeLibrary editor now generates consts parameters:
 - procedure CombineWith(aLijst: IUnknown); safecall;
 - procedure CombineWith(
 const aLijst: IUnknown); safecall;





Easier issues (3)

- Since Delphi 7, MakeObjectInstance is now in Classes.pas

 In Forms.pas it is now deprecated.
- Since Delphi 7, TModalResult is now in Controls.pas
 It was in Forms.pas
- Since Delphi 6, DirectoryExists is now in SysUtils.pas
 - so you don't need FileCtrl.pas any more (which is platform dependent)
- Since Delphi 6, TVarData.VError is now a HRESULT {\$ifdef d6up}

TVarData(FEmptyVar).VError := HRESULT(\$80020004);
{DISP_E_PARAMNOTFOUND}

{\$else}

TVarData(FEmptyVar).VError := LongWord(\$80020004); {DISP_E_PARAMNOTFOUND}

{\$endif}



Easier issues (4)

 Since Delphi 2006, a lot of Database things now use WideStrings (new unit)

type

{\$ifdef d10up}

TValueList = TWideStringList;

TAbstractValueList = TWideStrings;

{\$else}

TValueList = TStringList;

TAbstractValueList = TStrings;

{\$endif d10up}

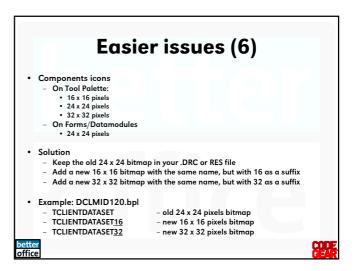




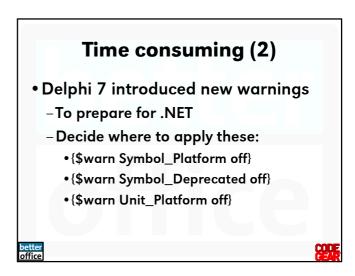
- Various Delphi versions introduce new RTTI level things
 - Only interesting if you do RTTI reflection (NNRTTI)



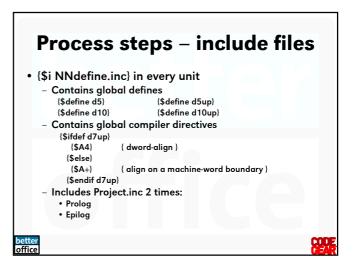




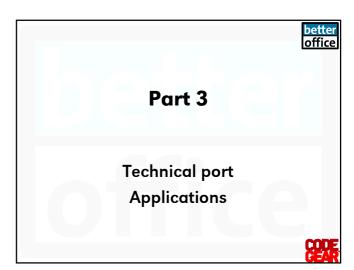
Time consuming (1) • Unit filenames must be the same case as the unit names - File MyUnit.pas is not compatible with "unit myunit;" • Separate packages in design-time and run-time - DsgnIntf was split up in multiple units in Delphi 6 - DesignIntf is now in a design-time only package • (\$ifdef d6up) • VCLEditors, // TMPFileNameEditor • DesignIntf, // DsgnIntf renamed to DesignIntf in D6 • (\$else) • DsgnIntf, • (\$endif d6up)











Hardest issue

- The DLL's were causing havoc
 - Access violations
 - •{\$A4} was required to get them to work
 - Wrong versions of the DLL's
 - Watch your path
 - Exported functions not found
 - These are CASE SENSITIVE
- In the end, we refactored the DLL's away





Easier issues

- NetMasters was removed in Delphi 6
 - Use Indy instead
 - In this case
 - rewrite usage of TNMFinger with TldFinger
 - Accommodate differences between the two
- TModalResult moved from unit Forms to unit Controls in Delphi 7
- TDataModule moved from unit Forms to unit Classes in Delphi 7





Easier issues (2)

- Since Delphi 2005, virtual methods are case sensitive
 - Especially the Destroy method of TObject is case sensitive
 - This is because of .NET issues, and package DLL exports
 - actually, similar to DLL export issues they are case sensitive

 - Similar to the fact since Delphi 1, the "procedure Register;" has been case sensitive this impacted component writers, now it impacts more people
- [Pascal Hint] Y1SAAP022.pas(176): H2365 Override method TPdcProcesQueryList.destroy should match case of ancestor TEAObject. Destroy





FastMM

- Put all application logic in a separate unit
- Project.dpr
 - Uses all referenced units to:
 - Make project manager happy
 - Make form-inheritance work
- MainUnit.pas
 - First unit used in Project.dpr
 - Contains the actual main block
 - Initializes FastMM and other stuff



FastMM — Project.dpr (\$i nndefine.inc} program Project; uses MainUnit in 'MainUnit.pas', Y35AAD00 in '..\shared\Y35AAD00.pas' {DmcDataBase: TDataModule}, // ... Y35AAD18 in '..\shared\Y35AAD18.pas' {DmcEasy: TDataModule}; (\$R *.RES) begin Main; //Application.Terminate; end.



