

LISTING 2

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' File: DataFile.BAS
' Version 00000001 - 12/12/88
' Customer data file management library
' (C)Joe Abernathy. All Rights Reserved.
' Data files (C) 1986-89, First Word.
' All Rights Reserved. Used with permission.
' Compiler: AC/BASIC and compatibles
'           Compile with N option set
' Contains: FWDDataSetUp, FWWriteCust, FWDeleteCust, FWShutDown, UpdateFWDData
' SUB FWDDataSetUp
' Start up the customer data library :

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SUB FWDDataSetUp SHARED
  OPTION BASE 0                                ' For arrays
  x1$ = "*/SYSTEM/FW.DATA"
  x2$ = "*/SYSTEM/CUSTOMERS"
  x3$ = "*/SYSTEM/CUSTOMERS/CUST.NAMES"

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' Has FWDDataSetUp been called?
' If not, begin:
  IF DataReady = Nil THEN
    FileIndex = FileIndex + 1
    ' Read main data file:
    OPEN x1$ FOR INPUT AS FileIndex
    LINE INPUT #FileIndex, x$
    NumCustomers = VAL (x$)
    CLOSE #FileIndex
    ' Max # of new entries, 50 :
    x% = NumCustomers + 50
    DIM fwCustNum% (x%)
    DIM fwCustList$ (x%)
    DIM fwFirstName$ (x%)
    DIM fwLastName$ (x%)
    DIM fwInitial$ (x%)
    DIM fwYBirth% (x%)
    DIM fwMBirth% (x%)
    DIM fwDBirth% (x%)
    DIM fwSSN$ (x%)
    DIM fwCompany$ (x%)
    DIM fwAddr1$ (x%)
    DIM fwAddr2$ (x%)
    DIM fwCity$ (x%)
    DIM fwState$ (x%)
    DIM fwZip$ (x%)
    DIM fwAreaCode% (x%)
    DIM fwPhone$ (x%)
    DIM fwLastContacted$(x%)
    DIM fwNote1$ (x%)
    ReadCustList                                ' Read Customers
    ReadCustData                                ' Fill arrays
    DataReady = 1
    FileIndex = FileIndex - 1
  END IF
END SUB

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' Private procedure - Create internal
' customer data files:
SUB MakeDataFiles SHARED
  OPEN "*/SYSTEM/FW.DATA" FOR OUTPUT AS FileIndex
  PRINT #FileIndex, NumCustomers
  CLOSE #FileIndex
  OPEN "*/SYSTEM/CUSTOMERS/CUST.LIST" FOR OUTPUT AS FileIndex
  Whom$ = "*/SYSTEM/CUSTOMERS/ABERNATHY.JOE"

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' Your first customer:
  PRINT #FileIndex, Whom$
  CLOSE #FileIndex
END SUB

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' Private procedure - Read list of customer
' data file names

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SUB ReadCustList SHARED
  OPEN x3$ FOR INPUT AS FileIndex
  FOR i = 1 to NumCustomers
    LINE INPUT #FileIndex, x$
    fwCustList$ (i-1) = x$
  NEXT i
  CLOSE #FileIndex
END SUB

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' Private procedure - Load customer arrays
' with proper info

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SUB ReadCustData SHARED
  FOR i = 1 to NumCustomers
    x$ = fwCustList$(i-1)
    OPEN x$ FOR INPUT AS FileIndex
    LINE INPUT #FileIndex, y$
    fwCustNum% (i-1) = VAL (y$)
    LINE INPUT #FileIndex, y$
    fwFirstName$(i-1) = y$
    LINE INPUT #FileIndex, y$
    fwLastName$(i-1) = y$
    LINE INPUT #FileIndex, y$
    fwInitial$(i-1) = y$
    LINE INPUT #FileIndex, y$
    fwYBirth% (i-1) = VAL (y$)
    LINE INPUT #FileIndex, y$
    fwMBirth% (i-1) = VAL (y$)
    LINE INPUT #FileIndex, y$
    fwDBirth% (i-1) = VAL (y$)
    LINE INPUT #FileIndex, y$
    fwSSN$ (i-1) = y$
    LINE INPUT #FileIndex, y$
    fwCompany$ (i-1) = y$
    LINE INPUT #FileIndex, y$
    fwAddr1$ (i-1) = y$
    LINE INPUT #FileIndex, y$
    fwAddr2$ (i-1) = y$
    LINE INPUT #FileIndex, y$
    fwCity$(i-1) = y$
    LINE INPUT #FileIndex, y$
    fwState$(i-1) = y$
    LINE INPUT #FileIndex, y$
    fwZip$ (i-1) = y$
    LINE INPUT #FileIndex, y$
    fwAreaCode%(i-1) = VAL (y$)
    LINE INPUT #FileIndex, y$
    fwPhone$ (i-1) = y$
    LINE INPUT #FileIndex, y$
    fwLastContacted$(i-1) = y$
    LINE INPUT #FileIndex, y$
    fwNote1$(i-1) = y$
    CLOSE #FileIndex
  NEXT i
END SUB

' Private procedure - Generate the first
' customer
SUB GetDefaultData SHARED
  fwCustList$ (0) = "Abernathy. Joe"
  fwCustNum% (0) = 1
  fwFirstName$ (0) = "Joe"
  fwLastName$ (0) = "Abernathy"
  fwInitial$ (0) = "D"
  fwYBirth%(0) = 1961
  fwMBirth% (0) = 6
  fwDBirth% (0) = 14
  fwSSN$(0) = "444-66-8878"
  fwCompany$ (0) = "First Word"
  fwAddr1$(0) = "P.O. Box 66046"
  fwAddr2$ (0) = ""
  fwCity$ (0) = "Houston"
  fwState$(0) = "TX"
  fwZip$(0) = "77266-6046"
  fwAreaCode% (0) = 713
  fwPhone$ (0) = "526-9711"
  fwLastContacted$ (0) = "12/25/1988"
  fwNote1$ (0) = "Journalist; has Great Dane; likes girls with glasses."
END SUB

' Save new or updated info for a customer .
' To add a new customer to the database,
' your user interface must load the arrays
' at index #NumCustomers+1, then pass 0
' for whom% to this procedure. To update
' an existing customer, pass any valid
' customer number.

SUB FWWriteCust (whom%) SHARED
  NewFlag% = 0
  FileIndex = FileIndex + 1
  IF whom% = Nil THEN ' Was value passed?
    NewFlag% = 1
    NumCustomers = NumCustomers + 1
    ' Amount offset into database:
    CustIndex% = NumCustomers
  ELSE

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        CustIndex% = whom%
    END IF
    FWFile$ = fwLastName$(CustIndex%-1) + "." + fwFirstName$ (CustIndex%-1)

' Truncate if needed for ProDOS:
    IF LEN (FWFile$) > 15 THEN
        FWFile$ = LEFT$ (FWFile$, 15)
    END IF

' Place in correct DIR:
Whom$ = "*" /SYSTEM/CUSTOMERS/" + FWFile$
x% = CustIndex% - 1
OPEN Whom$ FOR OUTPUT AS FileIndex
PRINT #FileIndex, STR$ (fwCustNum% (x%))
PRINT #FileIndex, fwFirstName$ (x%)
PRINT #FileIndex, fwLastName$ (x%)
PRINT #FileIndex, fwInitial$ (x%)
PRINT #FileIndex, STR$ (fwYbirth% (x%))
PRINT #FileIndex, STR$ (fwMbirth% (x%))
PRINT #FileIndex, STR$ (fwDbirth% (x%))
PRINT #FileIndex, fwSSN$(x%)
PRINT #FileIndex, fwCompany$ (x%)
PRINT #FileIndex, fwAddr1$ (x%)
PRINT #FileIndex, fwAddr2$ (x%)
PRINT #FileIndex, fwCity$ (x%)
PRINT #FileIndex, fwState$ (x%)
PRINT #FileIndex, fwZip$(x%)
PRINT #FileIndex, STR$ (fwAreaCode% (x%))
PRINT #FileIndex, fwPhone$ (x%)
PRINT #FileIndex, fwLastContacted$ (x%)
PRINT #FileIndex, fwNote1$ (x%)
CLOSE #FileIndex

' Add customer to list if new:
If NewFlag% THEN
    AddCustList
END IF
    FileIndex = FileIndex - 1
END SUB

' Private procedure - Add customer to list
' of data file names

SUB AddCustList SHARED
    OPEN "*" /SYSTEM/CUSTOMERS/CUST.LIST" FOR APPEND AS FileIndex
    PRINT #FileIndex, whom$
    CLOSE #FileIndex
END SUB

' Shut down the data file library, release
' memory, clean up flags.

SUB FWShutDown SHARED
    FileIndex = FileIndex + 1
    UpdateFWData                ' Update master data file

' Release array storage. Note that if you
' are exiting the application, you do not
' need to erase the arrays. If you do wish
' to erase the arrays, AC/BASIC requires
' that you make this code a subroutine
' in the main program:

' ERASE fwCustNum%
' ERASE fwCustList$
' ERASE fwFirstName$
' ERASE fwLastName$
' ERASE fwInitial$
' ERASE fwYbirth%
' ERASE fwMbirth%
' ERASE fwDbirth%
' ERASE fwSSN$
' ERASE fwCompany$
' ERASE fwAddr1$
' ERASE fwAddr2$
' ERASE fwCity$
' ERASE fwState$
' ERASE fwZip$
' ERASE fwAreaCode%
' ERASE fwPhone$
' ERASE fwLastContacted$
' ERASE fwNote1$
    DataReady = 0
    FileIndex = FileIndex - 1
END SUB

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' Remove a customer. which% should be a
' valid customer number. If it is not, the
' procedure will return with data unchanged.
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SUB FWDeleteCust (which%) SHARED
  FileIndex = FileIndex + 1
  CustIndex% = which%
  FWFile$ = LastName$(CustIndex%-1) + "." + FirstName$(CustIndex%-1)
  IF LEN (FWFile$) > 15 THEN
    FWFile$ = LEFT$(FWFile$,15)
  END IF
  Whom$ = "*/SYSTEM/CUSTOMERS/" + FWFile$
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' Make sure file exists:
  OPEN Whom$ FOR OUTPUT AS FileIndex
  CLOSE Whom$

  NumCustomers = NumCustomers - 1
  KILL Whom$
  f$ = "*/SYSTEM/CUSTOMERS/FW.TEMP"
  x$ = "*/SYSTEM/CUSTOMERS/CUST.LIST"
  OPEN f$ FOR OUTPUT AS FileIndex
  OPEN x$ FOR INPUT AS FileIndex + 1
  WHILE NOT EOF = FileIndex + 1
    LINE INPUT #FileIndex + 1; z$
    ' Everything except the customer
    ' being deleted:
    IF z$ <> Whom$ THEN
      PRINT #FileIndex, z$
    END IF
  WEND
  CLOSE #FileIndex
  CLOSE #FileIndex + 1
  KILL x$
  NAME f$, x$           ' FW.TEMP -> CUST.LIST
  UpdateFWData          ' master data file
  FWShutDown            ' Clear Cust. Arrays
  FWDataSetUp           ' Re-Init Data
  FileIndex = FileIndex - 1
END SUB
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' This updates the master data file. Add and
' remove saved fields as your needs change.
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SUB UpdateFWData SHARED
  FileIndex = FileIndex + 1
  OPEN "*/SYSTEM/FW.DATA" FOR OUTPUT AS FileIndex
  PRINT #FileIndex, STR$(NumCustomers)
  CLOSE #FileIndex
  FileIndex = FileIndex - 1
END SUB
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' End of AC/BASIC Data File Library
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