



Overview

This document describes enhancements to the W32 Application Builder and runtime (RUNW32.EXE) to date, including all releases after Version 9.60a.

The Utility Functions

The following utility functions that have been updated to support MySQL mapped files as arguments:

Bcopy
Bcreate
Berase
Bfilestat
Bindinfo
Brename

For details, see *W32 Utility Functions with MySQL Support*, which is available for download on the CET web site (www.cet-software.com).

MySQL Support

Support for MySQL databases has been improved. Improvements include

- Only a single connection is now made to the database specified by B_MYSQL no matter how many mapped tables you open.
- File names with slashes and back slashes are changed to Name fields where each slash or backslash is replaced by an underscore.
- Use of the MySQL interface by customers has resulted in a number of bugs being fixed.

Enhancements and Bug Fixes to the W32 Printer Extensions

The W32 Runtime has been improved to support print options in the PrinterCreate function (which is a macro for CALL cetObjectCreate) including:



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- Portrait or Landscape
- Copies=<number>
- Duplex=<0 or 1>
- Tray=<bin number>

The cWPDummy function, which is a multipurpose function that performs many useful functions, has been extended to support the acquisition of bin names and bin numbers from a Windows printer driver. A typical example of its use follows:

```
dim CapMat%(128)
dim CapMat$(128)

REM use captyp=1 for Bin Numbers
captyp%=1
call cWPDummy(1,PrinterName$,captyp%,mataddrof(CapMat%))

REM use captyp=2 for Bin Names
captyp%=2
call cWPDummy(1,PrinterName$,captyp%,mataddrof(CapMat$))
```

The function can be used to acquire the bin numbers to use in the “Tray=” argument of PrinterCreate. To determine what bin numbers refer to, acquire the array of bin names that are associated with each bin number index.

```
Bin 0 is Automatically Select = Bin Number 15
Bin 1 is Printer Auto Select = Bin Number 259
Bin 2 is Tray 1 = Bin Number 1
Bin 3 is Manual Feed (Tray 1) = Bin Number 4
Bin 4 is Tray 2 = Bin Number 258
Bin 5 is Tray 3 = Bin Number 257
```



Increase in Number of Files

The total number of open files (channels) has been increased to 256. These can be sequential, direct, indexed, ODBC or MySQL-mapped files.

Increase in Windows Objects

The total number of GUI objects (ID_WINSUBn) has been increased to 1000. Of these, 50 are reserved for toolbars.

New W32APP.W32 Variables

We have had reports that when opening and accessing a CET file across a slow network, it is possible to encounter a low-level Windows Error 36 (**Error 36**: The system has detected an overflow in the sharing buffer.). Although there appears to be no way to prevent this error, it is possible to recover from it. It generally doesn't work to attempt recovery by using ON ERROR and retrying, because the recovery procedure isn't fast enough. RUNW32 can attempt recovery for you, however by setting the following variables in W32APP.W32:

B_ERR36RETRY with a default of 5 retries
B_ERR36WAIT with a default of 50 milliseconds

Vista Support

W32 App Builder programs can be compiled and run under Vista. However, to invoke a W32 program you must use "RUNW32 <program-name>.EXE". It no longer works to just invoke <program-name>.EXE.

Bulk Licensing

W32 App Builder is available now as a special compiler that generates programs that can be run completely without a CET KeyPlug. Contact CET in the US or Omega Systems in Europe.