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MiniDumpWriteDump (dbghelp)

Summary

Writes user-mode minidump information to the specified file.

C# Signature:

```
[DllImport("Dbghelp.dll")]
static extern bool MiniDumpWriteDump(IntPtr
hProcess, uint ProcessId, IntPtr hFile, int
DumpType, ref MINIDUMP_EXCEPTION_INFORMATION
ExceptionParam, IntPtr UserStreamParam, IntPtr
CallbackParam);
```

VB Signature:

```
Declare Function MiniDumpWriteDump Lib
"Dbghelp.dll" (TODO) As TODO
```

User-Defined Types:

MINIDUMP_EXCEPTION_INFORMATION

Alternative Managed API:

Do you know one? Please contribute it!

Notes:

None.

Tips & Tricks:

Please add some!

Sample Code:

```
[DllImport("Dbghelp.dll")]
static extern bool MiniDumpWriteDump(IntPtr
hProcess, uint ProcessId, IntPtr hFile, int
DumpType,
    ref MINIDUMP_EXCEPTION_INFORMATION
ExceptionParam, IntPtr UserStreamParam, IntPtr
CallbackParam);

[DllImport("kernel32.dll")]
static extern IntPtr GetCurrentProcess();

[DllImport("kernel32.dll")]
static extern uint GetCurrentProcessId();

[DllImport("kernel32.dll")]
```

Access Pinvoke.net directly from VS:

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Revisions

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netapi32
ntdll
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aygshell
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```
static extern uint GetCurrentThreadId();

[StructLayout(LayoutKind.Sequential, Pack = 4)]
public struct MINIDUMP_EXCEPTION_INFORMATION
{
    public uint ThreadId;
    public IntPtr ExceptionPointers;
    public int ClientPointers;
}

/// <summary>
/// Call back function that will be called when an
/// exception has occurred. This function will create
/// a fullmemory dump of the application
/// </summary>
/// <param name="sender"></param>
/// <param name="e"></param>
static void
CurrentDomain_UnhandledException(object sender,
UnhandledExceptionEventArgs e)
{
    string assemblyPath =
Assembly.GetEntryAssembly().Location;
    string dumpFileName = assemblyPath + "_" +
DateTime.Now.ToString("dd.MM.yyyy.HH.mm.ss") +
".dmp";
    FileStream file = new FileStream(dumpFileName,
 FileMode.Create);
    MINIDUMP_EXCEPTION_INFORMATION info = new
MINIDUMP_EXCEPTION_INFORMATION();
    info.ClientPointers = 1;
    info.ExceptionPointers =
Marshal.GetExceptionPointers();
    info.ThreadId = GetCurrentThreadId();
    // A full memory dump is necessary in the case
of a managed application, other wise no
information
    // regarding the managed code will be
available
    MiniDumpWriteDump( GetCurrentProcess(),
GetCurrentProcessId(),
file.SafeFileHandle.DangerousGetHandle(),
MiniDumpWithFullMemory, ref info, IntPtr.Zero,
IntPtr.Zero );
    file.Close();
    string exeName =
Path.GetFileName(assemblyPath);
    MessageBox.Show( "An Unhanled exception has
been detected in the application " + exeName +
" .\r\nException information is saved in " +
dumpFileName, "Error", MessageBoxButtons.OK,
MessageBoxImage.Error);
}

private static readonly int MiniDumpWithFullMemory
= 2;
```

Suggested Reading
Website TODO List
Download Visual Studio Add-In

[Documentation](#)
[MiniDumpWriteDump](#) on MSDN

Please edit this page!

Do you have...

- helpful tips or sample code to share for using thisAPI in managed code?
- corrections to the existing content?
- variations of the signature you want to share?
- additional languages you want to include?

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