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FCGV8DVETG

MiniDumpWriteDump (dbghelp)

Create page

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")]
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 occured. 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 Unhandled exception has been detected in the application " + exeName +
    " .\r\nException information is saved in " + dumpFileName, "Error", MessageBoxButton.OK,
MessageBoxImage.Error);
}

private static readonly int MiniDumpWithFullMemory = 2;
```

Documentation

[MiniDumpWriteDump](#) on MSDN

Please edit this page!

Do you have...

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

Select "Edit This Page" on the right hand toolbar and [edit] it! Or [add] new pages containing supporting types needed for this API (structures, delegates, and more).

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FGX23ZK1DSQRP6WXDL13FRP0H1VSBC1PDIBV8MZ56S28I4V7EGCXJ467XUMMUCBKWUKPPL4GQYPEC1B3WW5ULCG9N1MIL9LIA2BS
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