

# Bit Helper

```
//GNU Library General Public License (LGPL)
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using System;
using System.Security;

namespace RaisingStudio.Collections.Generic
{
    internal class BitHelper
    {
        private const byte IntSize = 0x20;
        private int[] m_array;
        private unsafe int* m_arrayPtr;
        private int m_length;
        private const byte MarkedBitFlag = 1;
        private bool useStackAlloc;

        #if (PocketPC || Smartphone)
        #else
        [SecurityCritical]
        #endif
        internal unsafe BitHelper(int* bitArrayPtr, int length)
        {
            this.m_arrayPtr = bitArrayPtr;
            this.m_length = length;
            this.useStackAlloc = true;
        }

        internal BitHelper(int[] bitArray, int length)
        {
            this.m_array = bitArray;
            this.m_length = length;
        }

        [SecurityCritical]
        internal unsafe bool IsMarked(int bitPosition)
```

```
{
if (this.useStackAlloc)
{
int num = bitPosition / 0x20;
return (((num < this.m_length) && (num >= 0)) &&
((this.m_arrayPtr[num] & ((int)1) <= 0)) &&
((this.m_array[index] & ((int)1) <= 0))
{
int* numPtr1 = this.m_arrayPtr + num;
numPtr1[0] |= ((int)1) <= 0))
{
this.m_array[index] |= ((int)1) <
```