

eh.cm

```
/*  
  
    Copyright (c) 2012–2015 Seppo Laakko  
    http://sourceforge.net/projects/cmajor/  
  
    Distributed under the GNU General Public License, version 3 (GPLv3).  
    (See accompanying LICENSE.txt or http://www.gnu.org/licenses/gpl.html  
    )  
  
*/  
  
// Copyright (c) 1994  
// Hewlett-Packard Company  
// Copyright (c) 1996  
// Silicon Graphics Computer Systems, Inc.  
// Copyright (c) 2009 Alexander Stepanov and Paul McJones  
  
namespace System.Support  
{  
    public nothrow bool HandleThisEx(int* exceptionBaseIdTable, int  
        thrown, int caught)  
    {  
        if (thrown == caught)  
        {  
            return true;  
        }  
        int baseId = exceptionBaseIdTable[thrown - 1];  
        while (baseId != 0)  
        {  
            if (baseId == caught)  
            {  
                return true;  
            }  
            baseId = exceptionBaseIdTable[baseId - 1];  
        }  
        return false;  
    }  
  
    internal class ExceptionTableRecord  
    {  
        suppress ExceptionTableRecord();  
        suppress ExceptionTableRecord(const ExceptionTableRecord&);  
        suppress ExceptionTableRecord(ExceptionTableRecord&&);  
        suppress void operator=(const ExceptionTableRecord&);  
        suppress void operator=(ExceptionTableRecord&&);  
        public void* exceptionAddr;  
    }  
}
```

```

public nothrow void* GetExceptionAddr(void* exceptionTable , int
    exceptionId)
{
    ExceptionTableRecord* table = cast<ExceptionTableRecord*>(
        exceptionTable);
    ExceptionTableRecord* record = table + (exceptionId - 1);
    return record->exceptionAddr;
}

public nothrow void SetExceptionAddr(void* exceptionTable , int
    exceptionId , void* exception)
{
    ExceptionTableRecord* table = cast<ExceptionTableRecord*>(
        exceptionTable);
    ExceptionTableRecord* record = table + (exceptionId - 1);
    record->exceptionAddr = exception;
}

public class ExDeleter<T>
{
    public nothrow ExDeleter(T* ex-) : ex(ex-)
    {
    }
    suppress ExDeleter(const ExDeleter<T>&);
    suppress void operator=(const ExDeleter<T>&);
    suppress ExDeleter(ExDeleter<T>&&);
    suppress void operator=(ExDeleter<T>&&);
    public nothrow ~ExDeleter()
    {
        delete ex;
    }
    private T* ex;
}

public const int EXIT_SEGMENTATION_FAULT = 255;
public const int EXIT_UNHANDLED_EXCEPTION = 254;

public nothrow void DestructorUnhandledException()
{
    Write(stderr , "unhandled exception reached a destructor\n");
    exit(EXIT_UNHANDLED_EXCEPTION);
}

public nothrow void MainUnhandledException()
{
    Write(stderr , "got unhandled exception from main\n");
    exit(EXIT_UNHANDLED_EXCEPTION);
}

public class ExCodeChecker
{
    public nothrow ExCodeChecker(int& exCode-) : exCode(exCode-)
    {

```

```

    }
    suppress ExCodeChecker (const ExCodeChecker&);
    suppress void operator=(const ExCodeChecker&);
    public nothrow ~ExCodeChecker ()
    {
        if (exCode != 0)
        {
            DestructorUnhandledException ();
        }
    }
    private int& exCode;
}
}

```