

Memory leak in ADODB Connection15::Open method

Source: <http://www.tech-archive.net/Archive/Data/microsoft.public.data.ado/2007-05/msg00067.html>

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We have a client server application using ASP, ATL COM and SqlServer. We have found 36 bytes of memory leak in Connection15::Open method when we ran Rational Purify and we have no idea why it is happening. Here is the example code.

"dbbase.cpp"

```
-----  
void CDBBase::CreateDBHandle (CDBBase& pObj, bool bReadOnly)  
{  
    CreateDBHandle (bReadOnly);  
    pObj.CopyDBHandle (this);  
}  
  
void CDBBase::CopyDBHandle (CDBBase* pObj)  
{  
    m_pConn = pObj->m_pConn;  
    m_bDBHandleCreated = false;  
}  
  
void CDBBase::CreateDBHandle (bool bReadOnly)  
{  
    if (m_pConn == NULL)  
    {  
        m_pConn.CreateInstance (AdoGuids.m_Connection);  
  
        if (g_CommandTimeout == -1)  
            InitQueryTimeout();  
  
        m_pConn->CommandTimeout = g_CommandTimeout;  
  
        m_pConn->Open (  
            m_bstrLogonString,  
            bstrEmpty,  
            bstrEmpty,  
            ADODB::adConnectUnspecified );  
  
        m_bDBHandleCreated = true;  
    }  
}
```

Memory leak in ADODB Connection15::Open method

```
}
```

```
"msado15.tli"
```

```
-----  
inline HRESULT Connection15::Open ( _bstr_t ConnectionString, _bstr_t  
UserID, _bstr_t Password, long Options ) {  
    HRESULT _hr = raw_Open(ConnectionString, UserID, Password, Options);  
    if (FAILED(_hr)) _com_issue_errorex(_hr, this, __uuidof(this));  
    return _hr;  
}
```

Purify is showing a memory leak of 36 bytes in Connection15::Open method above.

```
[W] MLK: Memory leak of 36 bytes from 1 block allocated in  
ADODB::Connection15::Open(_bstr_t,_bstr_t,_bstr_t,long)  
[ImplementationLibrary.dll]  
Distribution of leaked blocks  
Allocation location  
LocalAlloc [C:\WINNT\system32\KERNEL32.DLL]  
ADODB::Connection15::Open(_bstr_t,_bstr_t,_bstr_t,long)  
[o:\applog\intern\debug\supportlibrary\msado15.tli:1229]  
}
```

```
inline HRESULT Connection15::Open ( _bstr_t  
ConnectionString, _bstr_t UserID, _bstr_t Password, long Options ) {  
=> HRESULT _hr = raw_Open(ConnectionString, UserID,  
Password, Options);  
if (FAILED(_hr)) _com_issue_errorex(_hr, this,  
__uuidof(this));  
return _hr;  
}
```

```
CDBBase::CreateDBHandle(bool)  
[d:\broker\common\develop\supportlibrary\dbbase.cpp:121]  
m_bstrLogonString,  
bstrEmpty,  
bstrEmpty,  
=> ADODB::adConnectUnspecified );
```

```
//m_pConn->PutCursorLocation(ADODB::adUseClient);  
// NOTE: Above line is necessary for fetching  
resultsets and output parameters.
```

```
CDBBase::CreateDBHandle(CDBBase&,bool)  
[d:\broker\common\develop\supportlibrary\dbbase.cpp:150]  
EXTLOG ("CreateDBHandle(): creating and copying DB  
handle");  
#endif
```

Memory leak in ADODB Connection15::Open method

```
=> CreateDBHandle (bReadOnly);  
pObj.CopyDBHandle (this);  
}
```

We are using MDAC version 2.81, Visual C++ .NET, Microsoft Development Environment 2003 and Microsoft .NET Framework 1.1

Any help regarding the memory leak fix would be greatly appreciated.

Thanks,
-amar

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