
Subject: Linking issue with U 5418 and MSC9

Posted by [BioBytes](#) on Wed, 10 Oct 2012 19:46:15 GMT

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Hi friends,

I would like to notify that if last nightly build U5418 compiles and links perfectly with MSC10, there is an issue with MSC9 : the libraries compiles well but I got the following message errors when linking...

DocManager: 2 file(s) built in (0:16.87), 8437 msecs / file, duration = 17156 msecs

Linking...

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall

WSAGetLastError(v

oid)" (__imp_?WSAGetLastError@@YGHXZ) referenced in function "private: static int __cdecl

Upp::TcpSocket:

:GetErrorCode(void)" (?GetErrorCode@TcpSocket@Upp@@CAHXZ)

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall

WSAStartup(unsig

ned short,struct WSAData *)" (__imp_?WSAStartup@@YGHGPAUWSAData@@@Z) referenced in function "void __cdecl

Upp::TcpSocketInit(void)" (?TcpSocketInit@Upp@@YAXXZ)

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall

ioctlsocket(unsig

ned int,long,unsigned long *)" (__imp_?ioctlsocket@@YGHIJPAK@Z) referenced in function

"private: bool __t

hiscall Upp::TcpSocket::SetupSocket(void)" (?SetupSocket@TcpSocket@Upp@@AAE_NXZ)

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned int

__stdcall socket(i

nt,int,int)" (__imp_?socket@@YGIHHH@Z) referenced in function "private: bool __thiscall

Upp::TcpSocket::O

pen(int,int,int)" (?Open@TcpSocket@Upp@@AAE_NHHH@Z)

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall

listen(unsigned i

nt,int)" (__imp_?listen@@YGHIH@Z) referenced in function "public: bool __thiscall

Upp::TcpSocket::Listen(

int,int,bool,bool)" (?Listen@TcpSocket@Upp@@QAE_NHH_N0@Z)

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall

bind(unsigned int

,struct sockaddr const *,int)" (__imp_?bind@@YGHIPBUsockaddr@@H@Z) referenced in

function "public: bool __

_thiscall Upp::TcpSocket::Listen(int,int,bool,bool)"

(?Listen@TcpSocket@Upp@@QAE_NHH_N0@Z)

\$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall

setsockopt(unsig

ned int,int,int,char const *,int)" (__imp_?setsockopt@@YGHIHHPBDH@Z) referenced in function

"public: bool

```

__thiscall Upp::TcpSocket::Listen(int,int,bool,bool)"
(?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned long
__stdcall htonl(u
nsigned long)" (__imp_?htonl@@YGKK@Z) referenced in function "public: bool __thiscall
Upp::TcpSocket::Lis
ten(int,int,bool,bool)" (?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned short
__stdcall htons(
unsigned short)" (__imp_?htons@@YGGG@Z) referenced in function "public: bool __thiscall
Upp::TcpSocket::L
isten(int,int,bool,bool)" (?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned int
__stdcall accept(u
nsigned int,struct sockaddr *,int *)" (__imp_?accept@@YGIIPAUsockaddr@@PAH@Z)
referenced in function "pub
lic: bool __thiscall Upp::TcpSocket::Accept(class Upp::TcpSocket &)"
(?Accept@TcpSocket@Upp@@@QAE_NAAV12@@@
Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) char * __stdcall
inet_ntoa(stru
ct in_addr)" (__imp_?inet_ntoa@@YGPADUin_addr@@@Z) referenced in function "public:
class Upp::String __th
iscall Upp::TcpSocket::GetPeerAddr(void)const "
(?GetPeerAddr@TcpSocket@Upp@@@QBE?AVString@2@XZ)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
getpeername(unsig
ned int,struct sockaddr *,int *)" (__imp_?getpeername@@YGHIPAUsockaddr@@PAH@Z)
referenced in function "pu
blic: class Upp::String __thiscall Upp::TcpSocket::GetPeerAddr(void)const "
(?GetPeerAddr@TcpSocket@Upp@@@
QBE?AVString@2@XZ)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
connect(unsigned
int,struct sockaddr const *,int)" (__imp_?connect@@YGHIPBUsockaddr@@@H@Z) referenced in
function "private:
bool __thiscall Upp::TcpSocket::RawConnect(struct addrinfo *)"
(?RawConnect@TcpSocket@Upp@@@AAE_NPAUaddri
nfo@@@Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
closesocket(unsig
ned int)" (__imp_?closesocket@@YGHI@Z) referenced in function "private: void __thiscall
Upp::TcpSocket::R
awClose(void)" (?RawClose@TcpSocket@Upp@@@AAEXXZ)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
send(unsigned int
,char const *,int,int)" (__imp_?send@@YGHIPBDHH@Z) referenced in function "private: int
__thiscall Upp::T

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cpSocket::RawSend(void const *,int)" (?RawSend@TcpSocket@Upp@@AAEHPBXH@Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
shutdown(unsigned
int,int)" (__imp_?shutdown@@YGHIH@Z) referenced in function "public: void __thiscall
Upp::TcpSocket::Shu
tdown(void)" (?Shutdown@TcpSocket@Upp@@QAEXXZ)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
gethostname(char
*,int)" (__imp_?gethostname@@YGHPADH@Z) referenced in function "public: static class
Upp::String __cdecl
Upp::TcpSocket::GetHostName(void)"
(?GetHostName@TcpSocket@Upp@@SA?AVString@2@XZ)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
select(int,struct
fd_set *,struct fd_set *,struct fd_set *,struct timeval const *)"
(__imp_?select@@YGHHPAUfd_set@@00PBUTi
meval@@@Z) referenced in function "private: bool __thiscall
Upp::TcpSocket::RawWait(unsigned long,int)" (
?RawWait@TcpSocket@Upp@@AAE_NKH@Z)
$blitz.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
recv(unsigned int
,char *,int,int)" (__imp_?recv@@YGHIPADHH@Z) referenced in function "private: int __thiscall
Upp::TcpSock
et::RawRecv(void *,int)" (?RawRecv@TcpSocket@Upp@@AAEHPAXH@Z)
$blitz.obj : error LNK2019: unresolved external symbol "int __stdcall __WSAFDIsSet(unsigned
int,struct fd_set
*)" (?__WSAFDIsSet@@YGHIPAUfd_set@@@Z) referenced in function "public: unsigned long
__thiscall Upp::Soc
ketWaitEvent::Get(int)const " (?Get@SocketWaitEvent@Upp@@QBKHX@Z)
D:\Fichiers Patrick\Projets Ultimate\Out\Mes
Projets\MSC9.Debug.Debug_Full.Gui\DocManager.exe : fatal error L
NK1120: 20 unresolved externals

```

There were errors. (5:59.92)

It seems that there is some kind of incompatibility between MSC9 headers and cpp files and UPP TcpSocket functions.

Have an idea to solve it or must we give up MSC9 compiler to move to MSC10 for future releases of Ultimate++?

Thanks for reply

Cheers

Biobytes

Subject: Re: Linking issue with U 5418 and MSC9
Posted by [BioBytes](#) on Fri, 12 Oct 2012 08:21:27 GMT
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Just to add that the linking problem with MSC9 is still consistent with new nightly build U5421.

Have a nice WE

Regards

Biobytes

Subject: Re: Linking issue with U 5418 and MSC9
Posted by [mirek](#) on Fri, 12 Oct 2012 08:47:36 GMT
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Can you try now (latest svn, "Core: ws2_32.lib added")?

Mirek

Subject: Re: Linking issue with U 5418 and MSC9
Posted by [BioBytes](#) on Fri, 12 Oct 2012 17:21:50 GMT
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Thanks Mirek for support

I tried to ws2_32.lib in Core.upp as described in svn r5422 and I got the same linkage error with MSC9. Find hererafter the captured image of the core package organizer after having modified the core.upp in uppscr directory.

Hope this is readable

Biobytes

Subject: Re: Linking issue with U 5418 and MSC9
Posted by [mirek](#) on Sat, 13 Oct 2012 09:27:39 GMT
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Well, I have tried fresh install and it seems OK...

Can you check that you have ws2_32.lib installed?

Subject: Re: Linking issue with U 5418 and MSC9
Posted by [BioBytes](#) on Sat, 13 Oct 2012 16:19:31 GMT
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Hello Mirek,

Thank for considering this issue. I just updated my system to U5424 this morning. All is perfect with MSC10 but I still have the linking error as described below when compiling the example "Button" supplied with UPP and MSC9:

Button.cpp

Button: 1 file(s) built in (0:07.34), 7343 msec / file, duration = 7359 msec

Linking...

Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall WSAGetLastError(void)" (__imp_?WSAGetLastError@@YGHXZ) referenced in function "private: static int __cdecl Upp::TcpSocket::GetErrorCode(void)" (?GetErrorCode@TcpSocket@Upp@@CAHXZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall WSASocket(int, int, int, struct WSADATA *, int)" (__imp_?WSASocket@@YGHGPAUWSADATA@@@Z) referenced in function "void __cdecl Upp::TcpSocketInit(void)" (?TcpSocketInit@Upp@@YAXXZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall ioctlsocket(int, long, unsigned long)" (__imp_?ioctlsocket@@YGHIJPAK@Z) referenced in function "private: bool __thiscall Upp::TcpSocket::SetupSocket(void)" (?SetupSocket@TcpSocket@Upp@@AAE_NXZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned int __stdcall socket(int, int, int)" (__imp_?socket@@YGIHHH@Z) referenced in function "private: bool __thiscall Upp::TcpSocket::Open(int, int, int)" (?Open@TcpSocket@Upp@@AAE_NHHH@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall listen(int, int)" (__imp_?listen@@YGHIH@Z) referenced in function "public: bool __thiscall Upp::TcpSocket::Listen(int, int, bool, bool)" (?Listen@TcpSocket@Upp@@QAE_NHH_N0@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall bind(int, struct sockaddr const *, int)" (__imp_?bind@@YGHIPBUsockaddr@@H@Z) referenced in function "public: bool __thiscall Upp::TcpSocket::Listen(int, int, bool, bool)"

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(?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
setsockopt(unsigned
    int,int,int,char const *,int)" (__imp_?setsockopt@@YGHIHPBDH@Z) referenced in function
"public: bool
    __thiscall Upp::TcpSocket::Listen(int,int,bool,bool)"
(?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned long
__stdcall htonl(u
    nsigned long)" (__imp_?htonl@@YGKK@Z) referenced in function "public: bool __thiscall
Upp::TcpSocket::Lis
    ten(int,int,bool,bool)" (?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned short
__stdcall htons(
    unsigned short)" (__imp_?htons@@YGGG@Z) referenced in function "public: bool __thiscall
Upp::TcpSocket::L
    isten(int,int,bool,bool)" (?Listen@TcpSocket@Upp@@@QAE_NHH_N0@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) unsigned int
__stdcall accept(u
    nsigned int,struct sockaddr *,int *)" (__imp_?accept@@YGIIPAUsockaddr@@PAH@Z)
referenced in function "pub
    lic: bool __thiscall Upp::TcpSocket::Accept(class Upp::TcpSocket &)"
(?Accept@TcpSocket@Upp@@@QAE_NAAV12@@@
    Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) char * __stdcall
inet_ntoa(stru
    ct in_addr)" (__imp_?inet_ntoa@@YGPADUin_addr@@@Z) referenced in function "public:
class Upp::String __th
    iscall Upp::TcpSocket::GetPeerAddr(void)const "
(?GetPeerAddr@TcpSocket@Upp@@@QBE?AVString@2@XZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
getpeername(unsig
    ned int,struct sockaddr *,int *)" (__imp_?getpeername@@YGHIPAUsockaddr@@PAH@Z)
referenced in function "pu
    blic: class Upp::String __thiscall Upp::TcpSocket::GetPeerAddr(void)const "
(?GetPeerAddr@TcpSocket@Upp@@@
    QBE?AVString@2@XZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
connect(unsigned
    int,struct sockaddr const *,int)" (__imp_?connect@@YGHIPBUsockaddr@@H@Z) referenced in
function "private:
    bool __thiscall Upp::TcpSocket::RawConnect(struct addrinfo *)"
(?RawConnect@TcpSocket@Upp@@@AAE_NPAUaddri
    nfo@@@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
closesocket(unsig
    ned int)" (__imp_?closesocket@@YGHI@Z) referenced in function "private: void __thiscall
Upp::TcpSocket::R

```

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awClose(void)" (?RawClose@TcpSocket@Upp@@AAEXXZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
send(unsigned int
,char const *,int,int)" (__imp_?send@@YGHIPBDHH@Z) referenced in function "private: int
__thiscall Upp::T
cpSocket::RawSend(void const *,int)" (?RawSend@TcpSocket@Upp@@AAEHPBXH@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
shutdown(unsigned
int,int)" (__imp_?shutdown@@YGHIH@Z) referenced in function "public: void __thiscall
Upp::TcpSocket::Shu
tdown(void)" (?Shutdown@TcpSocket@Upp@@QAEXXZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
gethostname(char
*,int)" (__imp_?gethostname@@YGHPADH@Z) referenced in function "public: static class
Upp::String __cdecl
Upp::TcpSocket::GetHostName(void)"
(?GetHostName@TcpSocket@Upp@@SA?AVString@2@XZ)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
select(int,struct
fd_set *,struct fd_set *,struct fd_set *,struct timeval const *)"
(__imp_?select@@YGHHPAUfd_set@@00PBUti
meval@@@Z) referenced in function "private: bool __thiscall
Upp::TcpSocket::RawWait(unsigned long,int)" (
?RawWait@TcpSocket@Upp@@AAE_NKH@Z)
Socket.obj : error LNK2019: unresolved external symbol "__declspec(dllimport) int __stdcall
recv(unsigned int
,char *,int,int)" (__imp_?recv@@YGHIPADHH@Z) referenced in function "private: int __thiscall
Upp::TcpSock
et::RawRecv(void *,int)" (?RawRecv@TcpSocket@Upp@@AAEHPAXH@Z)
Socket.obj : error LNK2019: unresolved external symbol "int __stdcall __WSAFDIsSet(unsigned
int,struct fd_set
*)" (?__WSAFDIsSet@@YGHIPAUfd_set@@@Z) referenced in function "public: unsigned long
__thiscall Upp::Soc
ketWaitEvent::Get(int)const " (?Get@SocketWaitEvent@Upp@@QBKHX@Z)
D:\Fichiers Patrick\Projets Ultimate\Out\Exemples\MSC9.Debug.Debug_Full.Gui\Button.exe : fatal
error LNK1120:
20 unresolved externals

```

There were errors. (2:45.40)

I checked that WS2_32.lib is well present in "C:/Program Files/MicrosoftSDKs/Windows/v6.1/lib/".

I saw that in "Socket.cpp" file in Core package that there is a pragma directive for ws2_32.lib.

```
#ifdef PLATFORM_WIN32  
#pragma comment(lib, "ws2_32.lib")  
#endif
```

Do you think this could cause problem with MSC9 linker?

Regards

Biobytes
