
Subject: How do I stick /NODEFAULTLIB in front of a library?

Posted by [kfeng](#) on Sat, 14 Jul 2007 13:57:26 GMT

[View Forum Message](#) <> [Reply to Message](#)

Hi,

I'm getting this error when I try to link an external library cppunitd.lib on MSC8

----- Core (MSC8 DEBUG DEBUG_FULL BLITZ WIN32 MSC) (1 / 3)

----- plugin\z (MSC8 DEBUG DEBUG_FULL BLITZ WIN32 MSC) (2 / 3)

----- TryCppUnit (MAIN MSC8 DEBUG DEBUG_FULL BLITZ WIN32 MSC) (3 / 3)

Linking...

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::basic_string<char,struct std::char_traits<char>,class std::allocato

r<char> >::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >(char const *)" (??0?\$basic_string@DU?\$char_t

raits@D@std@@V?\$allocator@D@2@@std@@QAE@PBD@Z) already defined in SimpleTest.obj

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: char const * __thiscall

std::basic_string<char,struct std::char_traits<char>,class

std::allocator<char> >::c_str(void)const "

(?c_str@\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@std@@QBEPBD XZ) already de

ined in TryCppUnit.obj

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::basic_string<char,struct std::char_traits<char>,class std::allocato

r<char> >::~~basic_string<char,struct std::char_traits<char>,class std::allocator<char> >(void)" (??1?\$basic_string@DU?\$char_traits@D

@std@@V?\$allocator@D@2@@std@@QAE@XZ) already defined in SimpleTest.obj

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::basic_string<char,struct std::char_traits<char>,class std::allocato

r<char> >::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >(class std::basic_string<char,struct std::cha

r_traits<char>,class std::allocator<char> > const &)"

(??0?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@std@@QAE@ABV01 @@Z)

already defined in TryCppUnit.obj

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall

std::_Container_base::~~_Container_base(void)" (??1_Container_base@std@@@Q

AE@XZ) already defined in SimpleTest.obj

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "void __cdecl std::_Debug_message(wchar_t const *,wchar_t const *,unsigned int)" (?_Debug_me

ssage@std@@YAXPB_W0I@Z) already defined in TryCppUnit.obj

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::_Lockit::~~_Lockit(void)"

(??1_Lockit@std@@QAE@XZ) already defined i

n libcpmtd.lib(xlock.obj)

msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::_Lockit::_Lockit(int)"

```

(??0_Lockit@std@@QAE@H@Z) already defined in
  libcpmtd.lib(xlock.obj)
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: void __thiscall
std::_Container_base::_Orphan_all(void)const " (?_Orphan_all@_Conta
iner_base@std@@QBEXXZ) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall
std::_Container_base::_Container_base(void)" (??0_Container_base@std@@QA
E@XZ) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: static unsigned int __cdecl
std::char_traits<char>::length(char const *)" (?length@
?$char_traits@D@std@@SAIPBD@Z) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: unsigned int __thiscall
std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char> >::length(void)const "
(?length@?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@std@@QBEIXZ
) already de
fined in $blitz.obj
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: virtual __thiscall
std::exception::~~exception(void)" (??1exception@std@@UAE@XZ) alre
ady defined in LIBCMTD.lib(stdexcpt.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: __thiscall std::exception::exception(void)"
(??0exception@std@@QAE@XZ) already defin
ed in LIBCMTD.lib(stdexcpt.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: __thiscall std::exception::exception(class
std::exception const &)" (??0exception@st
d@@QAE@ABV01@@@Z) already defined in LIBCMTD.lib(stdexcpt.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: __invalid_parameter already defined in
LIBCMTD.lib(invarg.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: __CrtDbgReportW already defined in
LIBCMTD.lib(dbgrptw.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: __thiscall std::exception::exception(char
const * const &)" (??0exception@std@@QAE@A
BQBD@Z) already defined in LIBCMTD.lib(stdexcpt.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: _memmove_s already defined in
LIBCMTD.lib(memmove_s.obj)
MSVCRTD.lib(ti_inst.obj) : error LNK2005: "private: __thiscall type_info::type_info(class type_info
const &)" (??0type_info@@AAE@ABV0@@@Z
) already defined in LIBCMTD.lib(typinfo.obj)
MSVCRTD.lib(ti_inst.obj) : error LNK2005: "private: class type_info & __thiscall
type_info::operator=(class type_info const &)" (??4type
_info@@AAEAAV0@ABV0@@@Z) already defined in LIBCMTD.lib(typinfo.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: char const * __thiscall
type_info::_name_internal_method(struct __type_info_node *)c
onst" (?_name_internal_method@type_info@@QBEPBDPAU__type_info_node@@@Z)
already defined in LIBCMTD.lib(typinfo.obj)
LINK : warning LNK4098: defaultlib 'MSVCRTD' conflicts with use of other libs; use
/NODEFAULTLIB:library
F:\upp\out\MSC8.Debug_full\TryCppUnit.exe : fatal error LNK1169: one or more multiply defined

```

symbols found

There were errors. (0:00.75)

The warning message says to use /NODEFAULTLIB:library so I tried adding that:

```
----- Core ( MSC8 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 1 / 3 )
cd F:\upp\uppsrc\Core
----- plugin\z ( MSC8 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 2 / 3 )
cd F:\upp\uppsrc\plugin\z
----- TryCppUnit ( MAIN MSC8 DEBUG DEBUG_FULL BLITZ WIN32 MSC ) ( 3 / 3 )
cd F:\MyApps\TryCppUnit
Linking...
link -nologo -machine:I386 -pdb:"F:\upp\out\MSC8.Debug_full\TryCppUnit.pdb"
-out:"F:\upp\out\MSC8.Debug_full\TryCppUnit.exe" -incremental
-l:yes -debug -OPT:NOREF -subsystem:console -LIBPATH:"F:\Program Files\Microsoft Visual
Studio 8\vc\lib" -LIBPATH:"F:\Program Files\Microsoft Platform SDK\lib" -LIBPATH:"M:\mysql-noinstall-5.0.27-win32\mysql-5.0.27-win32\lib"
-LIBPATH:"M:\UnitTest++\debug" -LIBPATH
:"L:\cppunit-1.12.0\cppunit-1.12.0\lib" /NODEFAULTLIB:cppunitd
"F:\upp\out\TryCppUnit\MSC8.Debug_full.Main\SimpleTest.obj" "F:\upp\out\TryCppUnit\MSC8.Debug_full.Main\TryCppUnit.obj" "F:\Program Files\Microsoft Visual
Studio 8\vc\lib\kernel32.lib" "F:\Program
Files\Microsoft Platform SDK\lib\user32.lib" "F:\Program Files\Microsoft Platform
SDK\lib\ole32.lib" "F:\Program Files\Microsoft Pla
tform SDK\lib\oleaut32.lib" "F:\Program Files\Microsoft Visual Studio 8\vc\lib\oldnames.lib"
"F:\Program Files\Microsoft Platform SD
K\lib\advapi32.lib" "F:\Program Files\Microsoft Platform SDK\lib\shell32.lib" "F:\Program
Files\Microsoft Platform SDK\lib\winmm.lib
" "F:\upp\out\Core\MSC8.Debug_full\blitz.obj" "F:\upp\out\Core\MSC8.Debug_full\OL_Set.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\adl
er32.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\compress.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\crc32.obj" "F:\upp\out\plugin\z\MS
C8.Debug_full\deflate.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\gzio.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\infblock.obj" "F:\upp
\out\plugin\z\MSC8.Debug_full\infcodes.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\inffast.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\i
nflate.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\infrees.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\infutil.obj" "F:\upp\out\plugin\
z\MSC8.Debug_full\trees.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\uncompr.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\zutil.obj" "L:\c
ppunit-1.12.0\cppunit-1.12.0\lib\cppunitd.lib"
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::basic_string<char,struct
std::char_traits<char>,class std::allocator
<char> >::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >(char const
```

```

*)" (??0?$basic_string@DU?$char_t
raits@D@std@@V?$allocator@D@2@@std@@QAE@PBD@Z) already defined in
SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: char const * __thiscall
std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char> >::c_str(void)const "
(?c_str@$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@std@@QBEPBD
XZ) already de
fined in TryCppUnit.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::basic_string<char,struct
std::char_traits<char>,class std::allocato
r<char> >::~basic_string<char,struct std::char_traits<char>,class std::allocator<char> >(void)"
(??1?$basic_string@DU?$char_traits@D
@std@@V?$allocator@D@2@@std@@QAE@XZ) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::basic_string<char,struct
std::char_traits<char>,class std::allocato
r<char> >::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >(class
std::basic_string<char,struct std::cha
r_traits<char>,class std::allocator<char> > const &)"
(??0?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@std@@QAE@ABV01
@@Z)
already defined in TryCppUnit.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall
std::_Container_base::~~_Container_base(void)" (??1_Container_base@std@@@Q
AE@XZ) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "void __cdecl std::_Debug_message(wchar_t const
*,wchar_t const *,unsigned int)" (?_Debug_me
ssage@std@@YAXPB_W0I@Z) already defined in TryCppUnit.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::_Lockit::~~_Lockit(void)"
(??1_Lockit@std@@QAE@XZ) already defined i
n libcpmtd.lib(xlock.obj)
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall std::_Lockit::_Lockit(int)"
(??0_Lockit@std@@QAE@H@Z) already defined in
libcpmtd.lib(xlock.obj)
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: void __thiscall
std::_Container_base::_Orphan_all(void)const " (?_Orphan_all@_Conta
iner_base@std@@QBEXXZ) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: __thiscall
std::_Container_base::_Container_base(void)" (??0_Container_base@std@@QA
E@XZ) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: static unsigned int __cdecl
std::char_traits<char>::length(char const *)" (?length@
?$char_traits@D@std@@SAIPBD@Z) already defined in SimpleTest.obj
msvcprtd.lib(MSVCP80D.dll) : error LNK2005: "public: unsigned int __thiscall
std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char> >::length(void)const "
(?length@$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@std@@QBEXZ
) already de

```

```

    fined in $blitz.obj
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: virtual __thiscall
std::exception::~exception(void)" (??1exception@std@@@UAE@XZ) alre
ady defined in LIBCMTD.lib(stdexcept.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: __thiscall std::exception::exception(void)"
(??0exception@std@@@QAE@XZ) already defin
ed in LIBCMTD.lib(stdexcept.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: __thiscall std::exception::exception(class
std::exception const &)" (??0exception@st
d@@@QAE@ABV01@@@Z) already defined in LIBCMTD.lib(stdexcept.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: __invalid_parameter already defined in
LIBCMTD.lib(invarg.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: __CrtDbgReportW already defined in
LIBCMTD.lib(dbgrptw.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: __thiscall std::exception::exception(char
const * const &)" (??0exception@std@@@QAE@A
BQBD@Z) already defined in LIBCMTD.lib(stdexcept.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: _memmove_s already defined in
LIBCMTD.lib(memmove_s.obj)
MSVCRTD.lib(ti_inst.obj) : error LNK2005: "private: __thiscall type_info::type_info(class type_info
const &)" (??0type_info@@AAE@ABV0@@@Z
) already defined in LIBCMTD.lib(typinfo.obj)
MSVCRTD.lib(ti_inst.obj) : error LNK2005: "private: class type_info & __thiscall
type_info::operator=(class type_info const &)" (??4type
_info@@AAEAAV0@ABV0@@@Z) already defined in LIBCMTD.lib(typinfo.obj)
MSVCRTD.lib(MSVCR80D.dll) : error LNK2005: "public: char const * __thiscall
type_info::_name_internal_method(struct __type_info_node *)c
onst" (?_name_internal_method@type_info@@@QBEPBDPAU__type_info_node@@@Z)
already defined in LIBCMTD.lib(typinfo.obj)
LINK : warning LNK4098: defaultlib 'MSVCRTD' conflicts with use of other libs; use
/NODEFAULTLIB:library
F:\upp\out\MSC8.Debug_full\TryCppUnit.exe : fatal error LNK1169: one or more multiply defined
symbols found
"F:\Program Files\Microsoft Visual Studio 8\vc\Bin\link.exe" -nologo -machine:I386
-pdb:"F:\upp\out\MSC8.Debug_full\TryCppUnit.pdb" -out
:"F:\upp\out\MSC8.Debug_full\TryCppUnit.exe" -incremental:yes -debug -OPT:NOREF
-subsystem:console -LIBPATH:"F:\Program Files\Micros
oft Visual Studio 8\vc\Lib" -LIBPATH:"F:\Program Files\Microsoft Platform SDK\Lib"
-LIBPATH:"M:\mysql-noinstall-5.0.27-win32\mysql-5
.0.27-win32\lib" -LIBPATH:"M:\UnitTest++\debug" -LIBPATH:"L:\cppunit-1.12.0\cppunit-1.12.0\lib"
/NODEFAULTLIB:cppunitd "F:\upp\o
ut\TryCppUnit\MSC8.Debug_full.Main\SimpleTest.obj"
"F:\upp\out\TryCppUnit\MSC8.Debug_full.Main\TryCppUnit.obj" "F:\Program Files\Mic
rosoft Visual Studio 8\vc\Lib\kernel32.lib" "F:\Program Files\Microsoft Platform
SDK\Lib\user32.lib" "F:\Program Files\Microsoft Pla
tform SDK\Lib\ole32.lib" "F:\Program Files\Microsoft Platform SDK\Lib\oleaut32.lib" "F:\Program
Files\Microsoft Visual Studio 8\vc\L
ib\oldnames.lib" "F:\Program Files\Microsoft Platform SDK\Lib\advapi32.lib" "F:\Program

```

```
Files\Microsoft Platform SDK\Lib\shell32.lib
"F:\Program Files\Microsoft Platform SDK\Lib\winmm.lib"
"F:\upp\out\Core\MSC8.Debug_full\blitz.obj" "F:\upp\out\Core\MSC8.Debug_
ull\OL_Set.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\adler32.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\compress.obj" "F:\upp\out\plu
gin\z\MSC8.Debug_full\crc32.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\deflate.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\gzio.obj" "F
:\upp\out\plugin\z\MSC8.Debug_full\infblock.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\infcodes.obj" "F:\upp\out\plugin\z\MSC8.Debug_
full\inffast.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\inflate.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\infrees.obj" "F:\upp\out\p
lugin\z\MSC8.Debug_full\infutil.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\trees.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\uncompr.ob
j" "F:\upp\out\plugin\z\MSC8.Debug_full\zutil.obj"
"L:\cppunit-1.12.0\cppunit-1.12.0\lib\cppunitd.lib"
Error executing "F:\Program Files\Microsoft Visual Studio 8\VC\Bin\link.exe" -nologo
-machine:I386 -pdb:"F:\upp\out\MSC8.Debug_full\TryC
ppUnit.pdb" -out:"F:\upp\out\MSC8.Debug_full\TryCppUnit.exe" -incremental:yes -debug
-OPT:NOREF -subsystem:console -LIBPATH:"F:\Prog
ram Files\Microsoft Visual Studio 8\VC\Lib" -LIBPATH:"F:\Program Files\Microsoft Platform
SDK\Lib" -LIBPATH:"M:\mysql-noinstall-5.0.
27-win32\mysql-5.0.27-win32\lib" -LIBPATH:"M:\UnitTest++\debug"
-LIBPATH:"L:\cppunit-1.12.0\cppunit-1.12.0\lib" /NODEFAULTLIB:cpp
unitd "F:\upp\out\TryCppUnit\MSC8.Debug_full.Main\SimpleTest.obj"
"F:\upp\out\TryCppUnit\MSC8.Debug_full.Main\TryCppUnit.obj" "F:\P
rogram Files\Microsoft Visual Studio 8\VC\Lib\kernel32.lib" "F:\Program Files\Microsoft Platform
SDK\Lib\user32.lib" "F:\Program Fil
es\Microsoft Platform SDK\Lib\ole32.lib" "F:\Program Files\Microsoft Platform
SDK\Lib\oleaut32.lib" "F:\Program Files\Microsoft Visu
al Studio 8\VC\Lib\oldnames.lib" "F:\Program Files\Microsoft Platform SDK\Lib\advapi32.lib"
"F:\Program Files\Microsoft Platform SDK
\Lib\shell32.lib" "F:\Program Files\Microsoft Platform SDK\Lib\winmm.lib"
"F:\upp\out\Core\MSC8.Debug_full\blitz.obj" "F:\upp\out\C
ore\MSC8.Debug_full\OL_Set.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\adler32.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\compress.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\crc32.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\deflate.obj" "F:\upp\out\plugin\z\MSC8.Debug_
ull\gzio.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\infblock.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\infcodes.obj" "F:\upp\out\plug
in\z\MSC8.Debug_full\inffast.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\inflate.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\infrees.ob
j" "F:\upp\out\plugin\z\MSC8.Debug_full\infutil.obj"
"F:\upp\out\plugin\z\MSC8.Debug_full\trees.obj" "F:\upp\out\plugin\z\MSC8.Debug
_full\uncompr.obj" "F:\upp\out\plugin\z\MSC8.Debug_full\zutil.obj"
"L:\cppunit-1.12.0\cppunit-1.12.0\lib\cppunitd.lib"
Exitcode: 1169
```

There were errors. (0:01.00)

Still having problems... anyone have any ideas? Thanks in advance.

- Ken
