
Subject: CreateProcessW doesn't compile with CLANG

Posted by [forlano](#) on Mon, 01 May 2023 13:09:44 GMT

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Hello,

my the app call the windows API

CreateProcessW()

```
#ifndef PLATFORM_WIN32
```

```
    #include <windows.h>
```

```
#endif
```

```
...
```

```
#ifndef PLATFORM_WIN32
```

```
    strcpy( a, commandline);
```

```
    wchar aa[1000];
```

```
    wcscpy(aa, commandline.ToWString());
```

```
    STARTUPINFO si; //STARTUPINFO si; //for char
```

```
    PROCESS_INFORMATION pi;
```

```
    ZeroMemory( &si, sizeof(si) );
```

```
    si.cb = sizeof(si);
```

```
    ZeroMemory( &pi, sizeof(pi) );
```

```
    CreateProcessW( NULL, // No module name (use command line)
```

```
        aa, // Command line for wchar
```

```
        NULL, // Process handle not inheritable
```

```
        NULL, // Thread handle not inheritable
```

```
        FALSE, // Set handle inheritance to FALSE
```

```
        CREATE_NO_WINDOW, //0, // No creation flags
```

```
        NULL, // Use parent's environment block
```

```
        NULL, // Use parent's starting directory
```

```
        &si, // Pointer to STARTUPINFO structure
```

```
        &pi ); // Pointer to PROCESS_INFORMATION structure
```

```
    // Wait until child process exits.
```

```
    WaitForSingleObject( pi.hProcess, INFINITE );
```

```
    // Close process and thread handles.
```

```
    CloseHandle( pi.hProcess );
```

```
    CloseHandle( pi.hThread );
```

```
#else
```

```
...
```

Under MSVC19 it compiles and run without problem. Now I am using CLANG (no Microsoft SDK on my machine) and the compiler complains about wcsncpy() and CreateProcessW():

```
C:\MyApps\Vega82\RoundSwiss.cpp (132): error: no matching function for call to 'wcsncpy'
(): wcsncpy(aa, cmdline.ToWString());
C:/upp/bin/clang/include/intrin.h (274): note: candidate function not viable: no known conversion
from 'Upp::wchar[1000]' (aka 'unsigned long[1000]') to '
wchar_t * __restrict' for 1st argument
(): __MACHINEIW64(wchar_t * __cdecl wcsncpy(wchar_t * __restrict__, const wchar_t *
__restrict__))
C:/upp/bin/clang/include/intrin.h (186): note: expanded from macro '__MACHINEIW64'
(): #define __MACHINEIW64 __MACHINE
C:/upp/bin/clang/include/intrin.h (189): note: expanded from macro '__MACHINE'
(): #define __MACHINE(X) X;
C:\MyApps\Vega82\RoundSwiss.cpp (140): error: no matching function for call to
'CreateProcessW'
C:\MyApps\Vega82\RoundSwiss.cpp (222): error: no matching function for call to 'wcsncpy'
```

Which include should I use? I tried to

```
#include <processthreadsapi.h>
```

and many others but without success.

Thanks,
Luigi