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()

```
#ifdef PLATFORM_WIN32
  #include <windows.h>
#endif

...

#ifdef PLATFORM_WIN32
   strcpy( a, commandline);
   wchar aa[1000];
   wcscpy(aa, commandline.ToWString());

   STARTUPINFOW 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 wcscpy() and CreateProcessW():

C:\MyApps\Vega82\RoundSwiss.cpp (132): error: no matching function for call to 'wcscpy'
 (): w cscpy (aa, commandline.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 w cscpy(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 'wcscpy'

Which include should I use? I tried to

#include <processthreadsapi.h>

and many others but without success.

Thanks,
Luigi