Subject: Re: TURTLE alpha status
Posted by Tom1 on Tue, 04 Feb 2014 08:47:45 GMT
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Hi Mirek,

I tried to compile the Reference/WebWord on Windows MSC9. Here are the issues and the solutions for them to make it work on Windows:

1. The following declaration is missing in WebWord.h but still referenced in ShowInfo:

```
int64      sent_prev;
```

2. The compiler goes nuts about this in Core/Gtypes.h:

```
#ifdef PLATFORM_WIN32
 operator const RECT*() const { ASSERT(sizeof(*this) == sizeof(RECT)); return (RECT*)this; }
 operator RECT*()             { ASSERT(sizeof(*this) == sizeof(RECT)); return (RECT*)this; }
 operator RECT&()             { ASSERT(sizeof(*this) == sizeof(RECT)); return *(RECT*)this; }
 operator RECT() const        { RECT r; r.top = top; r.bottom = bottom;
              r.left = left; r.right = right; return r; }
 Rect_(const RECT& rc)        { Set((T)rc.left, (T)rc.top, (T)rc.right, (T)rc.bottom); }
#endif
```

Commenting it out removes the problem, but is hardly the solution to use. (Should it be conditioned with "&& !PLATFORM_TURTLE" ?)

3. Finally when linking I get:

```
Linking...
FT_fontsys.lib(FT_fontsys.obj) : error LNK2005: "void __cdecl Upp::GetStdFontSys(class
Upp::String &,int &)" (?GetStdFontSys@Upp@@YAXAAVString@1@AAH@Z) already defined in
Draw.lib(FontWin32.obj)
FT_fontsys.lib(FT_fontsys.obj) : error LNK2005: "class Upp::String __cdecl
Upp::GetFontDataSys(class Upp::Font)"
(?GetFontDataSys@Upp@@YA?AVString@1@VFont@1@@Z) already defined in
Draw.lib(FontWin32.obj)
FT_fontsys.lib(FT_fontsys.obj) : error LNK2005: "class Upp::Vector<struct Upp::FaceInfo>
__cdecl Upp::GetAllFacesSys(void)"
(?GetAllFacesSys@Upp@@YA?AV?$Vector@UFaceInfo@Upp@@@1@XZ) already defined in
Draw.lib(FontWin32.obj)
FT_fontsys.lib(FT_fontsys.obj) : error LNK2005: "struct Upp::CommonFontInfo __cdecl
Upp::GetFontInfoSys(class Upp::Font)"
(?GetFontInfoSys@Upp@@YA?AUCommonFontInfo@1@VFont@1@@Z) already defined in
Draw.lib(FontWin32.obj)
```

FT_fontsys.lib(FT_fontsys.obj) : error LNK2005: "struct Upp::GlyphInfo __cdecl Upp::GetGlyphInfoSys(class Upp::Font,int)" (?GetGlyphInfoSys@Upp@@YA?AUGlyphInfo@1@VFont@1@H@Z) already defined in Draw.lib(FontWin32.obj)
FT_fontsys.lib(FT_fontsys.obj) : error LNK2005: "void __cdecl Upp::RenderCharacterSys(struct Upp::FontGlyphConsumer &,double,double,int,class Upp::Font)" (?RenderCharacterSys@Upp@@YAXAAUFontGlyphConsumer@1@NNHVFont@1@@Z) already defined
 in Draw.lib(FontWin32.obj)
C:\upp-svn\out\reference\MSC9.Turtle\WebWord.exe : fatal error LNK1169: one or more multiply defined symbols found

To fix this, the package dependency in WebWord to plugin/DroidFonts needs to be conditionalized with When: TURTLE && !WIN32.

The last one can be solved by moving:

extern StaticRect& DesktopRect();

outside of the bool Ctrl::StartSession() function in Turtle/Server.cpp.

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The WebWord then compiles, links and runs just fine on Windows (for one client session:).

Best regards,

Tom