
Subject: Re: Do we have support for Windows on ARM64?

Posted by Tom1 on Fri, 05 Dec 2025 11:38:24 GMT

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Now tried to "Setup > Upgrade TheIDE" in order to get native TheIDE if that has any effect for debugging. However, I was unable to compile it:

Saving

----- ide/Common (GUI CLANG BLITZ WIN32) (1 / 40)

BLITZ: ComDlg.cpp Module.cpp Util.cpp

----- ide/Core (GUI CLANG BLITZ WIN32) (2 / 40)

BLITZ: Ide.cpp Cache.cpp Core.cpp Util.cpp Builder.cpp PPinfo.cpp Assembly.cpp Package.cpp
Workspace.cpp usc.cpp BinObj.cpp Signature.cpp Host
.cpp Logger.cpp

----- ide/LayDes (GUI CLANG BLITZ WIN32) (3 / 40)

BLITZ: sdiff.cpp laylib.cpp layusc.cpp property.cpp textprop.cpp fontprop.cpp propane.cpp
item.cpp layout.cpp visgen.cpp laydes.cpp layfile.c
p laywin.cpp

----- ide/Builders (GUI CLANG WIN32) (4 / 40)

Precompiling header: Builders.h

ide/Common: 3 file(s) built in (0:01.51), 505 msec / file

ide/Core: 14 file(s) built in (0:02.48), 177 msec / file

ide/LayDes: 13 file(s) built in (0:03.67), 282 msec / file

CppBuilder.cpp

MakeFile.cpp

CCJ.cpp

GccBuilder.cpp

MscBuilder.cpp

JavaBuilder.cpp

ScriptBuilder.cpp

Cocoa.cpp

AndroidProject.cpp

AndroidApplicationMakeFile.cpp

AndroidMakeFile.cpp

AndroidModuleMakeFile.cpp

AndroidBuilder.cpp

AndroidBuilderCommands.cpp

AndroidBuilderUtils.cpp

AndroidModuleMakeFileBuilder.cpp

Blitz.cpp

Build.cpp

Install.cpp

BuilderUtils.cpp

ide/Builders: 21 file(s) built in (0:07.57), 360 msec / file

Creating library...

C:/upp/bin/clang/bin/llvm-ar.exe: warning: creating

C:/upp/out/uppsrc/ide/Builders/CLANGARM64.Gui\Builders.a

C:/upp/out/uppsrc/ide/Builders/CLANGARM64.Gui\Builders.a (1124408 B) created in (0:00.07)

----- ide/Debuggers (GUI CLANG BLITZ WIN32) (5 / 40)

```

BLITZ: Terminal.cpp Disas.cpp GdbCmd.cpp GdbData.cpp Gdb.cpp GdbMem.cpp GdbUtils.cpp
Debug.cpp Mem.cpp Sym.cpp Exp.cpp PrettyUpp.cpp PrettyStd
  .cpp Scripts.cpp Pretty.cpp Visualise.cpp Data.cpp Tree.cpp Stack.cpp Code.cpp
Cpu.cpp
Pdb.cpp
----- ide/Browser ( GUI CLANG BLITZ WIN32 ) ( 6 / 40 )
BLITZ: Util.cpp TopicBase.cpp File.cpp Topic.cpp Template.cpp Link.cpp TopicWin.cpp Move.cpp
CodeRef.cpp TopicI.cpp
----- CodeEditor ( GUI CLANG BLITZ WIN32 ) ( 7 / 40 )
BLITZ: Register.cpp HighlightOut.cpp Syntax.cpp Style.cpp RegisterSyntax.cpp CSyntax.cpp
CInit.cpp CHighlight.cpp CLogic.cpp DiffSyntax.cpp Ta
  gSyntax.cpp PythonSyntax.cpp LogSyntax.cpp EditorBar.cpp FindReplace.cpp Lang.cpp
CodeEditor.cpp
----- CtrlLib ( GUI CLANG BLITZ WIN32 ) ( 8 / 40 )
BLITZ: CtrlLibInit.cpp SmartText.cpp LabelBase.cpp DisplayPopup.cpp Button.cpp Switch.cpp
VirtualButtons.cpp EditField.cpp Text.cpp LineEdit.c
  pp DocEdit.cpp ScrollBar.cpp HeaderCtrl.cpp ArrayCtrl.cpp MultiButton.cpp PopupTable.cpp
PopUpList.cpp DropList.cpp DropChoice.cpp Static.
  cpp Splitter.cpp FrameSplitter.cpp SliderCtrl.cpp ColumnList.cpp Progress.cpp AKeys.cpp
RichTextView.cpp Prompt.cpp Help.cpp DateTimeCtrl.
  cpp SuggestCtrl.cpp Bar.cpp ToolButton.cpp ToolBar.cpp ToolTip.cpp StatusBar.cpp
TabCtrl.cpp TreeCtrl.cpp DropTree.cpp DlgColor.cpp ColorP
  opup.cpp ColorPusher.cpp FileList.cpp FileSel.cpp FileSelUtil.cpp PrinterJob.cpp Windows.cpp
Win32.cpp Gtk.cpp TrayIconWin32.cpp TrayIconX
  11.cpp TrayIconGtk.cpp Update.cpp CtrlUtil.cpp BeginnerInfo.cpp LNGCtrl.cpp Ch.cpp
ChGtk3.cpp ChCoco.cpp
MenuItem.cpp
MenuBar.cpp
ChWin32.cpp
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:1:26: error: no member named 'Rax' in
'_CONTEXT'
  1 | CPU_REG(CV_AMD64_AL  , Rax, REG_L, NULL, 0)
    | ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
  19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
    | ~~~~~^~~~~~
ctx.context64.context_var;
    | ~~~~~^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:2:26: error: no member named 'Rcx' in
'_CONTEXT'
  2 | CPU_REG(CV_AMD64_CL  , Rcx, REG_L, NULL, 0)
    | ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
  19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
    | ~~~~~^~~~~~
ctx.context64.context_var;
    | ~~~~~^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

```

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:3:26: error: no member named 'Rdx' in '_CONTEXT'

```
3 | CPU_REG(CV_AMD64_DL , Rdx, REG_L, NULL, 0)
| ~~~~~^~~~~~
```

C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;

In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:4:26: error: no member named 'Rbx' in '_CONTEXT'

```
4 | CPU_REG(CV_AMD64_BL , Rbx, REG_L, NULL, 0)
| ~~~~~^~~~~~
```

C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;

In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:5:26: error: no member named 'Rax' in '_CONTEXT'

```
5 | CPU_REG(CV_AMD64_AH , Rax, REG_H, NULL, 0)
| ~~~~~^~~~~~
```

C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;

In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:6:26: error: no member named 'Rcx' in '_CONTEXT'

```
6 | CPU_REG(CV_AMD64_CH , Rcx, REG_H, NULL, 0)
| ~~~~~^~~~~~
```

C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;

In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:7:26: error: no member named 'Rdx' in '_CONTEXT'

```
7 | CPU_REG(CV_AMD64_DH , Rdx, REG_H, NULL, 0)
| ~~~~~^~~~~~
```

C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;

In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:8:26: error: no member named 'Rbx' in '_CONTEXT'

```
8 | CPU_REG(CV_AMD64_BH , Rbx, REG_H, NULL, 0)
```



```

ctx.context64.context_var;
|
| ~~~~~ ^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:15:26: error: no member named 'Rbp' in
'_CONTEXT'
15 | CPU_REG(CV_AMD64_BP , Rbp, REG_X, NULL, 0)
| ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;
|
| ~~~~~ ^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:16:26: error: no member named 'Rsi' in
'_CONTEXT'
16 | CPU_REG(CV_AMD64_SI , Rsi, REG_X, NULL, 0)
| ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;
|
| ~~~~~ ^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:17:26: error: no member named 'Rdi' in
'_CONTEXT'
17 | CPU_REG(CV_AMD64_DI , Rdi, REG_X, NULL, 0)
| ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;
|
| ~~~~~ ^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:18:26: error: no member named 'Rax' in
'_CONTEXT'
18 | CPU_REG(CV_AMD64_EAX , Rax, REG_E, NULL, 0)
| ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;
|
| ~~~~~ ^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:
C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:19:26: error: no member named 'Rcx' in
'_CONTEXT'
19 | CPU_REG(CV_AMD64_ECX , Rcx, REG_E, NULL, 0)
| ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
ctx.context64.context_var;
|
| ~~~~~ ^
In file included from C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:20:

```

```

C:\upp\upp.src\uppsrc\ide\Debuggers/amd64.cpu:20:26: error: no member named 'Rdx' in
'_CONTEXT'
 20 | CPU_REG(CV_AMD64_EDX , Rdx, REG_E, NULL, 0)
    | ~~~~~^~~~~~
C:\upp\upp.src\uppsrc\ide\Debuggers\Cpu.cpp:19:85: note: expanded from macro 'CPU_REG'
 19 | #define CPU_REG(sym, context_var, kind, name, flags) case sym: return
    | ~~~~~^~~~~~
ctx.context64.context_var;
    | ~~~~~^
fatal error: too many errors emitted, stopping now [-ferror-limit=]
20 errors generated.
In file included from
C:\upp/out/uppsrc/ide/Debuggers/CLANGARM64.Blitz.Gui\ide/Debuggers$blitz.cpp:46:
C:\upp\upp.src\uppsrc\ide\Debuggers\Debug.cpp:255:29: error: no member named 'Rsp' in
'_CONTEXT'
 255 |     f.sp = win64 ? c.context64.Rsp : c.context32.Esp;
    |           ~~~~~^
C:\upp\upp.src\uppsrc\ide\Debuggers\Debug.cpp:420:46: error: no member named 'Rip' in
'_CONTEXT'
 420 |         && bp_set.Find((win64 ? t.context64.Rip : t.context32.Eip)
    | ~~~~~^
- 1) >= 0
    | ~~~~~^
C:\upp\upp.src\uppsrc\ide\Debuggers\Debug.cpp:427:21: error: no member named 'Rip' in
'_CONTEXT'
 427 |         t.context64.Rip--;
    |         ~~~~~^
C:\upp\upp.src\uppsrc\ide\Debuggers\Debug.cpp:528:21: error: no member named 'EFlags' in
'_CONTEXT'
 528 |     context.context64.EFlags |= 0x100;
    |     ~~~~~^
C:\upp\upp.src\uppsrc\ide\Debuggers\Debug.cpp:539:21: error: no member named 'EFlags' in
'_CONTEXT'
 539 |     context.context64.EFlags &= ~0x100;
    |     ~~~~~^
In file included from
C:\upp/out/uppsrc/ide/Debuggers/CLANGARM64.Blitz.Gui\ide/Debuggers$blitz.cpp:162:
C:\upp\upp.src\uppsrc\ide\Debuggers\Stack.cpp:28:44: error: no member named 'Rip' in
'_CONTEXT'
 28 |     stackFrame.AddrPC.Offset = ctx.context64.Rip;
    |                               ~~~~~^
C:\upp\upp.src\uppsrc\ide\Debuggers\Stack.cpp:29:47: error: no member named 'Rbp' in
'_CONTEXT'
 29 |     stackFrame.AddrFrame.Offset = ctx.context64.Rbp;
    |                               ~~~~~^
C:\upp\upp.src\uppsrc\ide\Debuggers\Stack.cpp:30:47: error: no member named 'Rsp' in
'_CONTEXT'
 30 |     stackFrame.AddrStack.Offset = ctx.context64.Rsp;
    |                               ~~~~~^
In file included from

```

C:/upp/out/uppsrc/ide/Debuggers/CLANGARM64.Blitz.Gui\ide/Debuggers\$blitz.cpp:169:
C:\upp\upp.src\uppsrc\ide\Debuggers\Code.cpp:52:28: error: no member named 'Rip' in
'_CONTEXT'

```
52 |         return context.context64.Rip;  
   |         ~~~~~~~~~~~~~~~~~~~~~ ^
```

C:\upp\upp.src\uppsrc\ide\Debuggers\Code.cpp:259:21: error: no member named 'Rip' in
'_CONTEXT'

```
259 |         context.context64.Rip = a;  
    |         ~~~~~~~~~~~~~~~~~~~~~ ^
```

10 errors generated.

ide/Debuggers: 22 file(s) built in (0:01.75), 79 msec / file

ide/Browser: 10 file(s) built in (0:02.84), 284 msec / file

CodeEditor: 17 file(s) built in (0:03.07), 181 msec / file

CtrlLib: 62 file(s) built in (0:09.70), 156 msec / file

There were errors. (0:17.51) (completed at 13:33)

Best regards,

Tom
