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Subject: Re: Know what you're using. Size of some common types.

Posted by [Novo](#) on Thu, 12 May 2022 06:26:58 GMT

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FYI.

I've attached three tab-separated tables having a header below:

Type, Name, TypeIndex, Nested, Size, Padding, Padding/Size

This info is for TheIDE, Release, Windows. It is retrieved from debug info (this can be done in Windows and Unix)

Sorted by Size:

```
struct Upp::MemoryProfile 11203 0 278616 20 0.0000717834
struct Upp::MemoryProfile 99836 0 278616 20 0.0000717834
struct Ide 10 0 232488 108 0.0004645401
struct Ide 43920 0 232488 108 0.0004645401
class BuildMethods 71641 0 174176 0 0
class BuildMethods 825 0 174176 0 0
struct ZSTD_DCtx_s 118100 0 160312 18 0.0001122811
struct ZSTD_DCtx_s 1331 0 160312 18 0.0001122811
struct Upp::HeaderFooterDlg 5573 0 141680 0 0
class Upp::PatchDiff 102483 0 135664 4 0.0000294846
class Upp::PatchDiff 6438 0 135664 4 0.0000294846
class Upp::PatchDiff 6440 0 135664 4 0.0000294846
class Upp::PatchDiff 65233 0 135664 4 0.0000294846
class Upp::GIFRaster::Data 123850 1 133624 14 0.0001047716
class Upp::GIFRaster::Data 2175 1 133624 14 0.0001047716
class Data 123927 1 133624 14 0.0001047716
class Data 123927 1 133624 14 0.0001047716
class Upp::GIFEncoder::Data 6934 1 131432 0 0
class Data 124015 1 131432 0 0
class Upp::GIFEncoder::Data 124084 1 131432 0 0
struct Upp::sPalMaker 128970 0 131076 0 0
struct Upp::sPalMaker 109 0 131076 0 0
struct CLzmaEnc 1268 0 123272 8 0.0000648971
struct CLzmaEnc 117784 0 123272 8 0.0000648971
struct Pool 87626 1 114888 11 0.0000957454
struct Pool 87626 1 114888 11 0.0000957454
struct Upp::CoWork::Pool 11093 1 114888 11 0.0000957454
class DefaultBuilderSetup 463 0 109368 0 0
class Upp::StyleManager 5023 0 104200 4 0.0000383877
class Upp::StyleManager 119901 0 104200 4 0.0000383877
class TopicEditor 2965 0 85088 7 0.0000822678
class TopicEditor 74943 0 85088 7 0.0000822678
class Upp::DirDiffDlg 102374 0 81664 0 0
class Upp::DirDiffDlg 548 0 81664 0 0
class Upp::DirDiffDlg 45948 0 81664 0 0
class Upp::DirDiffDlg 546 0 81664 0 0
```

```

struct Upp::ParaFormatDlg 9045 0 80640 0 0
class Upp::ParaFormatting 1638 0 79848 14 0.0001753331
class Upp::ParaFormatting 119816 0 79848 14 0.0001753331
struct QtfdlgEditor 6998 0 70416 0 0
struct IdeQtfdes 2039 0 70096 0 0
struct IdeQtfdes 103543 0 70096 0 0
class Upp::RichEditWithToolBar 6608 0 70072 7 0.0000998972
class Upp::RichEditWithToolBar 6606 0 70072 7 0.0000998972
struct Upp::RichEditHdrFtr 11338 0 70064 0 0
class Upp::RichEdit 7027 0 69464 41 0.0005902338
class Upp::RichEdit 7025 0 69464 41 0.0005902338
class Upp::RichEdit 7029 0 69464 41 0.0005902338
class Upp::RichEdit 120597 0 69464 41 0.0005902338
class Upp::RichEdit 68731 0 69464 41 0.0005902338
struct Upp::WordDistanceTester 109746 0 67076 0 0
struct Upp::WordDistanceTester 6526 0 67076 0 0
struct DState 7923 0 64144 9 0.0001403093
struct FormatDlg 10024 0 64136 0 0
struct OutMode 2169 0 62928 0 0
struct WithSetupFontLayout<Upp::ParentCtrl> 1817 0 58800 160 0.0027210884
struct EState 7925 0 55768 8 0.0001434514
class Gdb 81257 0 51688 28 0.0005417118
class Gdb 35 0 51688 28 0.0005417118
struct Pdb 73 0 48864 42 0.0008595285
struct Pdb 82340 0 48864 42 0.0008595285
struct AssistEditor 2647 0 48184 29 0.0006018595

```

Sorted by Padding:

```

class Upp::CodeEditor 92617 0 19104 3468 0.1815326633
class Upp::CodeEditor 973 0 19104 3468 0.1815326633
class Upp::CodeEditor 975 0 19104 3468 0.1815326633
class Upp::CodeEditor 39471 0 19104 3468 0.1815326633
class Upp::ImagePainter 8169 0 1128 1072 0.9503546099
struct Upp::WithPaletteLayout<Upp::TopWindow> 8787 0 9648 344 0.035655058
struct WithTemplateListLayout<Upp::TopWindow> 1602 0 4576 344 0.0751748252
struct WithSimpleListLayout<Upp::TopWindow> 10165 0 4576 344 0.0751748252
struct Upp::WithMacroManagerLayout<Upp::TopWindow> 3045 0 1704 344 0.2018779343
struct WithUrepoConsoleLayout<Upp::TopWindow> 7591 0 4576 344 0.0751748252
struct WithExportTrLayout<Upp::TopWindow> 4231 0 15768 344 0.0218163369
struct Upp::WithPaletteSelectorLayout<Upp::TopWindow> 10028 0 944 344 0.3644067797
struct WithInsertAsLayout<Upp::TopWindow> 8805 0 1312 344 0.262195122
struct WithCustomLayout<Upp::TopWindow> 9241 0 5392 344 0.0637982196
struct WithMoveTopicLayout<Upp::TopWindow> 3205 0 20552 344 0.0167380304
struct WithSetupWebSearchEngineLayout<Upp::TopWindow> 6467 0 2592 344 0.1327160494
struct Upp::WithImageSizeLayout<Upp::TopWindow> 11622 0 3288 344 0.104622871
struct WithRenamePackageLayout<Upp::TopWindow> 7263 0 1840 344 0.1869565217
struct WithConfLayout<Upp::TopWindow> 3688 0 5792 344 0.0593922652
struct Upp::WithHexGotoLayout<Upp::TopWindow> 6162 0 6008 344 0.0572569907

```

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struct WithSaveTemplateLayout<Upp::TopWindow> 6802 0 15472 344 0.0222337125
struct Upp::WithSimpleSelectLayout<Upp::TopWindow> 7940 0 4576 344 0.0751748252
struct WithCredentialLayout<Upp::TopWindow> 2412 0 8040 344 0.0427860697
struct Upp::WithImageLayout<Upp::TopWindow> 7100 0 5432 344 0.0633284242
struct Upp::WithFileSelectorLayout<Upp::TopWindow> 10310 0 18168 344 0.0189343901
struct WithNewPackageLayout<Upp::TopWindow> 9953 0 11152 344 0.0308464849
struct Upp::WithEditIntLayout<Upp::TopWindow> 4129 0 1560 344 0.2205128205
struct WithLangLayout<Upp::TopWindow> 9111 0 16384 344 0.0209960938
struct WithBaseSetupLayout<Upp::TopWindow> 9523 0 4472 344 0.0769230769
struct Upp::WithCellPropertiesLayout<Upp::TopWindow> 3301 0 16312 344 0.021088769
struct WithGotoMemoryLayout<Upp::TopWindow> 10812 0 6776 344 0.0507674144
struct WithQuickwatchLayout<Upp::TopWindow> 1587 0 9144 344 0.0376202975
struct WithMatrixLayout<Upp::TopWindow> 9943 0 5784 344 0.0594744122
struct WithAddLangLayout<Upp::TopWindow> 2193 0 9936 344 0.0346215781
struct WithTppLayout<Upp::TopWindow> 11550 0 5624 344 0.0611664296
struct WithFindInFilesLayout<Upp::TopWindow> 568 0 33064 344 0.0104040648
struct WithCharsetLayout<Upp::TopWindow> 7572 0 5576 344 0.0616929699
struct Upp::WithRescaleLayout<Upp::TopWindow> 1186 0 7048 344 0.0488081725
struct Upp::WithUnitLayout<Upp::TopWindow> 8941 0 7784 344 0.0441932169
struct WithPasskeyLayout<Upp::TopWindow> 2155 0 2304 344 0.1493055556
struct Upp::WithSplitCellLayout<Upp::TopWindow> 9882 0 3288 344 0.104622871
struct WithMoveCopyPackageLayout<Upp::TopWindow> 5037 0 6984 344 0.049255441
struct WithPrintLayout<Upp::TopWindow> 8193 0 2552 344 0.1347962382
struct WithGetPasskeyLayout<Upp::TopWindow> 7321 0 1552 344 0.2216494845
struct WithAutoSetupLayout<Upp::TopWindow> 4127 0 1768 344 0.1945701357
struct Upp::WithRichFindReplaceLayout<Upp::TopWindow> 8541 0 11912 344 0.0288784419
struct WithNestEditorLayout<Upp::TopWindow> 10780 0 5696 344 0.0603932584
struct WithRunLayout<Upp::TopWindow> 6662 0 15368 344 0.0223841749
struct WithLicenseLayout<Upp::TopWindow> 8869 0 3016 344 0.1140583554
struct WithNewTopicLayout<Upp::TopWindow> 4786 0 15472 344 0.0222337125
struct WithVisGenLayout<Upp::TopWindow> 6277 0 26104 344 0.013178057
struct WithSelectPackageLayout<Upp::TopWindow> 10725 0 11288 344 0.0304748405
struct WithAbbreviationsLayout<Upp::TopWindow> 6285 0 24648 344 0.0139565076
struct Upp::WithObjectSizeLayout<Upp::TopWindow> 206 0 7240 344 0.0475138122
struct Upp::WithFileSelectorLayout<Upp::TopWindow> 10308 0 18168 344 0.0189343901
struct WithSetupGITLayout<Upp::TopWindow> 3425 0 3280 344 0.1048780488
struct Upp::WithIDEFindReplaceLayout<Upp::TopWindow> 10873 0 14192 344 0.0242390079

```

Sorted by Padding/Size:

```

class Upp::ImagePainter 8169 0 1128 1072 0.9503546099
struct _DEBUG_EVENT 3331 0 176 160 0.9090909091
struct COFF_IMAGE_SYMBOL 3051 0 26 16 0.6153846154
struct COFF_IMAGE_SYMBOL 139682 0 26 16 0.6153846154
struct jpeg_error_mgr 260 0 168 88 0.5238095238
class Upp::CallbackN<int,bool &> 1397 0 16 8 0.5
class Upp::CallbackN<int,int> 56432 0 16 8 0.5
class Upp::CallbackN<Upp::Stream &> 9252 0 16 8 0.5
class Upp::CallbackN<int,int> 5209 0 16 8 0.5

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```

class Upp::CallbackN<const int &> 119721 0 16 8 0.5
class Upp::CallbackN<const Upp::String &,Upp::Vector<Upp::LineEdit::Highlight> &,const
Upp::WString &> 5426 0 16 8 0.5
class Upp::CallbackN<bool,const Upp::String &,Upp::Image &> 75509 0 16 8 0.5
struct ValueType 55349 1 16 8 0.5
class Upp::CallbackN<const Upp::String &,Upp::Vector<Upp::LineEdit::Highlight> &,const
Upp::WString &> 66671 0 16 8 0.5
class Upp::GateN<> 10086 0 16 8 0.5
class Upp::GateN<int,int> 2708 0 16 8 0.5
class Upp::GateN<Upp::CodeEditor::MouseTip &> 66796 0 16 8 0.5
class Upp::CallbackN<Upp::Bar &> 1485 0 16 8 0.5
class Upp::CallbackN<Upp::String &> 66756 0 16 8 0.5
class Upp::CallbackN<Upp::String> 64253 0 16 8 0.5
struct ValueType 55349 1 16 8 0.5
class Upp::CallbackN<bool,const Upp::String &,Upp::Image &> 1154 0 16 8 0.5
class Upp::CallbackN<Upp::Time &> 95128 0 16 8 0.5
class Upp::CallbackN<Upp::String &,Upp::WString &> 8703 0 16 8 0.5
class Upp::CallbackN<int,Upp::PasteClip &> 37998 0 16 8 0.5
class Upp::GateN<Upp::CodeEditor::MouseTip &> 2995 0 16 8 0.5
struct Upp::RichTxt::Part 55362 1 16 8 0.5
struct value_type 55350 1 16 8 0.5
class Upp::GateN<> 113352 0 16 8 0.5
class Upp::CallbackN<const Upp::String &,const Upp::String &> 99218 0 16 8 0.5
class Upp::CallbackN<Upp::Point_<int> > 37972 0 16 8 0.5
class Upp::CallbackN<long long> 10110 0 16 8 0.5
class Upp::GateN<int,int> 94204 0 16 8 0.5
class Upp::CallbackN<Upp::Bar &> 24631 0 16 8 0.5
class Upp::CallbackN<int> 5035 0 16 8 0.5
class Upp::CallbackN<long long> 66825 0 16 8 0.5
class Upp::CallbackN<int,Upp::PasteClip &> 4225 0 16 8 0.5
class Upp::CallbackN<int,const Upp::String &> 91852 0 16 8 0.5
class Upp::CallbackN<int,const Upp::String &> 2099 0 16 8 0.5
struct Upp::RichTxt::Part 2071 1 16 8 0.5
class Upp::CallbackN<Upp::One<Upp::Ctrl> &> 26383 0 16 8 0.5
class Upp::CallbackN<Upp::PasteClip &> 8017 0 16 8 0.5
struct value_type 138946 1 16 8 0.5
class Upp::CallbackN<Upp::EscEscape &> 250 0 16 8 0.5
class Upp::CallbackN<Upp::Point_<int> > 1598 0 16 8 0.5
struct Part 51523 1 16 8 0.5
class Upp::CallbackN<const char *> 472 0 16 8 0.5
class Upp::CallbackN<const char *> 58355 0 16 8 0.5
class Upp::CallbackN<Upp::EscEscape &> 66862 0 16 8 0.5
class Upp::CallbackN<int> 52370 0 16 8 0.5
class Upp::GateN<long long,long long> 3299 0 16 8 0.5
class Upp::GateN<long long,long long> 64649 0 16 8 0.5
class Upp::CallbackN<const Upp::String &> 66709 0 16 8 0.5
class Upp::CallbackN<const int &> 5404 0 16 8 0.5
class Upp::CallbackN<Upp::Stream &> 31135 0 16 8 0.5

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class Upp::CallbackN<Upp::Time &> 6708 0 16 8 0.5
struct value_type 55350 1 16 8 0.5
struct asn1_type_st 478 0 16 8 0.5
class Upp::CallbackN<Upp::String &> 10703 0 16 8 0.5
class Upp::CallbackN<> 24613 0 16 8 0.5
class Upp::CallbackN<Upp::One<Upp::EditorSyntax> &> 92123 0 16 8 0.5
struct value_type 138946 1 16 8 0.5
class Upp::CallbackN<> 7716 0 16 8 0.5
class Upp::CallbackN<Upp::One<Upp::EditorSyntax> &> 11314 0 16 8 0.5
class Upp::CallbackN<int,bool &> 61655 0 16 8 0.5
class Upp::CallbackN<Upp::PasteClip &> 86672 0 16 8 0.5
class Upp::CallbackN<const Upp::String &,const Upp::String &> 5211 0 16 8 0.5
class Upp::CallbackN<const void *,int> 100988 0 16 8 0.5
struct Part 51523 1 16 8 0.5
class Upp::CallbackN<Upp::String> 3828 0 16 8 0.5
class Upp::CallbackN<const Upp::String &> 11143 0 16 8 0.5
class Upp::CallbackN<Upp::One<Upp::Ctrl> &> 2277 0 16 8 0.5
class Upp::CallbackN<Upp::String &,Upp::WString &> 88967 0 16 8 0.5
class Upp::CallbackN<const void *,int> 4958 0 16 8 0.5
struct AppPreview::Line 2523 1 32 15 0.46875
struct Line 31709 1 32 15 0.46875
struct ValueType 32269 1 32 15 0.46875
struct AppPreview::Line 32282 1 32 15 0.46875
struct ValueType 32269 1 32 15 0.46875
struct value_type 32270 1 32 15 0.46875
struct value_type 32270 1 32 15 0.46875
struct Upp::Iml::IImage 17989 1 16 7 0.4375
struct ValueType 18704 1 16 7 0.4375
struct Upp::sThreadParam 5869 0 16 7 0.4375
struct Upp::Iml::IImage 11268 1 16 7 0.4375
struct ValueType 18589 1 16 7 0.4375
class Upp::WaitCursor 5752 0 16 7 0.4375
struct value_type 18705 1 16 7 0.4375
struct Upp::H_I_ 9555 0 16 7 0.4375
struct value_type 17978 1 16 7 0.4375
class Pdb::CopyMenu::<lambda24> 86333 0 16 7 0.4375
class Pdb::CopyMenu::<lambda25> 86334 0 16 7 0.4375
struct value_type 17978 1 16 7 0.4375
struct Upp::TupleN<2,unsigned char,const char *> 606 0 16 7 0.4375
struct Upp::TupleN<2,unsigned char,const char *> 109882 0 16 7 0.4375
struct IImage 17819 1 16 7 0.4375
struct ValueType 18704 1 16 7 0.4375
class Pdb::CopyMenu::<lambda24> 86117 0 16 7 0.4375
struct ValueType 18589 1 16 7 0.4375
struct IImage 17819 1 16 7 0.4375
class Upp::DirDiffDlg::DirDiffDlg::<lambda0>::operator()::<lambda1> 102429 0 16 7 0.4375
struct value_type 18705 1 16 7 0.4375
class Upp::DirDiffDlg::DirDiffDlg::<lambda0>::operator()::<lambda1> 102522 0 16 7 0.4375

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class Pdb::CopyMenu::<lambda25> 86125 0 16 7 0.4375

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