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Binary Project File Format

The binary format is the native format of REALbasic projects, and have the extension ‘.rbp’ or ‘.rb’.

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Overview

The file header is:

- “RbBF”
- fileFormatVersion as UInt32 *’ Guessing, the value is always 1.*
- unknown(8) *’ Unknown, the value of these bytes is always 0.*
- headerLength as UInt32 *’ Guessing, the value is always 20, which coincides nicely with the length of the header.*

After the file header is an unspecified ammount of blocks. The block header is:

- “Blok”
- blockName(4) as string
- blockID as UInt32
- unknown(4) *’ Unknown, the value of these bytes is always 0.*
- blockLen as UInt32 *’ This includes the block header.*
- blockFlags as UInt32 *’ Bits 0 and 1 both indicate encrypted items, other flags have only been found to be zero so far*
- unknown(8) *’ Unknown, the value of these is always 0 except for encrypted blocks.*

After the block header is an unspecified ammount of sub blocks. The sub block header is:

- name(4) as string
- type(4) as string

The data following the sub block header depends on the type.

‘Strn’ (String) Type:

- len as UInt32

- data(len) as string
- "“(4 – len mod 4) ’ *Pad it with spaces to the next 4 byte boundry*

‘Int ’ (Integer) Type:

- data as Int32

‘Grup’ (Group) Type:

- length as UInt32
- ID as UInt32

Following the ‘Grup’ type is an unspecified ammount of sub blocks, and then a ‘Int ’ sub block with the name ‘EndG’. The value of the ‘EndG’ sub block is the ‘Grup’ ID.

‘Padn’ (Padding) Type:

- length as UInt32
- “*” (length)

The ‘Padn’ type is used at the end of a block to pad it to the next 1024 byte boundry.

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[TT's Textual \(rbvx\) format description \(a 3rd party format\)](#)

rbprj/binary.txt · Last modified: 2006/03/09 06:42 by 129.187.114.244

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