
Construct3 Documentation

Release 3.0.0 / 2013.03.01

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Sep 27, 2017

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Contents:

Packers

Adapters

Numbers

`class construct3.numbers.MaskedInteger (underlying, **fields)`

```
>>> m = MaskedInteger(uint161,
...     bottom4 = (0, 4),
...     upper12 = (4, 12),
... )
>>> print m.unpack("\x17\x02")
Container:
  bottom4 = 7
  upper12 = 33
>>> print repr(m.pack(Container(upper12 = 33, bottom4 = 7)))
'\x17\x02'
```

Macros

`construct3.macros.AlignedStruct (*members)`

Algorithm taken from http://en.wikipedia.org/wiki/Data_structure_alignment#Computing_padding

Example:

```
s = AlignedStruct (
    "a" / word8,           # 0
```

```
# padding (1)                # 1
"b" / word16,                # 2-3
"c" / word16,                # 4-5
# padding (2)                # 6-7
"d" / word32,                # 8-11
"e" / word8,                 # 12
"f" / BitStruct(             # 13
    "x" / nibble,
    "y" / nibble,
)
# padding (2)                # 14-15
# total size = 16
)
```

Compiler

CHAPTER 2

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