
`ctypeslib` converted libnfc and libfreefare.

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ctypeslib converted libnfc and libfreefare.

USAGE

```
from pynfc import Nfc, Desfire, Timeout

n = Nfc("pn532_uart:/dev/ttyUSB0:115200")

DESFIRE_DEFAULT_KEY = b'\x00' * 8
MIFARE_BLANK_TOKEN = b'\xFF' * 1024 * 4

for target in n.poll():
    try:
        print(target.uid, target.auth(DESFIRE_DEFAULT_KEY if type(target) == Desfire_
↪ else MIFARE_BLANK_TOKEN))
    except TimeoutException:
        pass
```



```
sudo apt install libfreefare-dev libclang-5.0-dev
git clone https://github.com/BarnabyShearer/pynfc.git
cd pynfc
python3 setup.py develop --user
```

2.1 Installation

```
sudo apt install libclang-dev libfreefare-dev
python3 -m pip install pynfc
```

2.2 pynfc

Libnfc and libfreefare with just enough of the internals to actually be usable.

class `pynfc.Desfire(target: int)`

Specialize for DesFire devices.

auth(key: bytes, keyno: int = 0) → bool

Authenticate.

class `pynfc.Mifare(target: int)`

Specialize for Mifare devices.

auth(data: bytes, sector: int = 1, akey: bool = True) → bool

Authenticate.

class `pynfc.Nfc(device: Optional[str] = None, log_level: Optional[str] = None)`

A slightly pythonic interface.

poll(modulations: Tuple[Tuple[int, int]] = ((1, 3),), times: int = 255, delay: int = 1) → Iterator[Target]

Wait for device to enter field.

class `pynfc.Target(target: int)`

Target devices that may enter our field.

property type

Type of this device.

property uid

UID of the device.

(can vary in length based on type) (do not rely on them being absolutely unique)

class `pynfc.Timeout`(*timeoutlength: Optional[int] = 1*)

Watchdog to timeout functions.

exception `pynfc.TimeoutException`

Timeout Exception.

`pynfc.classic_auth(*args: Any, **kwargs: Any) → Any`

Wrap function.

`pynfc.classic_connect(*args: Any, **kwargs: Any) → Any`

Wrap function.

`pynfc.desfire_auth(*args: Any, **kwargs: Any) → Any`

Wrap function.

`pynfc.desfire_connect(*args: Any, **kwargs: Any) → Any`

Wrap function.

`pynfc.poll(*args: Any, **kwargs: Any) → Any`

Wrap function.

`pynfc.tag_new(*args: Any, **kwargs: Any) → Any`

Wrap function.

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