Class name: NvocPage

Header:

#include "nvidianvml.h"

#include "nvidiaapi.h"

#include "database.h"

#include "structures.h"

#include <QSettings>

#include <QSpinBox>

#include <QCheckBox>

#include <QComboBox>

#include <QSlider>

#include <QLineEdit>

Name space: std

Description: NvocPage class controls the widgets displaying in the overclocking page.

Constructors:

**NvocPage**(NvidiaAPI\* nvapi, QSettings\* settings,

QSpinBox\* spinBoxTemperature,

QPushButton\* pushButtonAutoOC,

QCheckBox\* checkBoxAllDevices,

QCheckBox\* checkBoxOCMinerStart,

QComboBox\* comboBoxDevice,

QCheckBox\* \_checkBoxAutoSpeedFan,

QSlider\* \_horizontalSliderFanSpeed

):

Parameters: Nvidia API, setting file, widgets displaying in the overclocking page.

Return: None.

Task: Initial the overclocking settings for all GPU. Load settings to recover the last recent user input. Retrieving the GPU overclocking settings from file (data/advice.txt).

Destructor:

~**NvocPage**():

Parameters: None.

Return: None.

Task: Free the necessary space used in the class.

Key Private Variables:

|  |  |
| --- | --- |
| QSpinBox\* \_spinBoxTemperature; | Spin box for temperature limit in overclocking page. |
| QPushButton\* \_pushButtonAutoOC; | Auto overclocking button in overclocking page. |
| QCheckBox\* \_checkBoxAllDevices; | Check box for apply to all devices in overclocking page. |
| QCheckBox\* \_checkBoxOCMinerStart; | Check box for overclocking miner start in overclocking page. |
| QComboBox\* \_comboBoxDevice; | Combo box to select device in overclocking page. |
| QCheckBox\* \_checkBoxAutoSpeedFan; | Check box for auto fan speed function in overclocking page. |
| QSlider\* \_horizontalSliderFanSpeed; | Horizontal slider to adjust fan speed in overclocking page. |
| QList<QStringList\*> \* \_advise; | Advice for overclocking . |

Key Public Variables:

|  |  |
| --- | --- |
| QSettings\* \_settings; | Setting file. |
| NvidiaNVML\* \_nvml; | NVIDIA management library. |
| NvidiaAPI\* \_nvapi; | NVIDIA APIs. |
| QList<nvCard> \_cardList; | GPU overclocking information. |
| unsigned int \_gpuIndex; | GPU number. |

Public Methods:

QStringList **getAdvice**(const char\* type):

Parameters: GPU type name.

Return: None.

Task: Retrieve overclocking advice.